

**690-189: Big Data, Algorithms, and Society**  
**Fall 2017**  
**Monday 12:20p-3:05p**

**Instructor:**

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Associate Professor  
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**Office Hours:**

Monday 10:20-12:20p Manning Hall 201. (Also by appointment).

**Course Description:**

This course examines emerging topics in the fast developing field big data, algorithms and society.

**Expectations**

The success of this class depends on your active engagement. I expect everyone to come to class not just having read the assigned readings or viewed the videos, but also to have thought about the topics and be ready to discuss them. This is a new field and creative, bold thinking is encouraged; on the other hand, be ready and willing to defend your opinions with empirical and philosophical support. We expect people in this class to disagree and to respectfully argue different points of view. The goal is for all of us to emerge having learned more than just the content of the readings.

There will be three components to your assignments in this class. First, you (along with at least one more classmate) will be responsible for leading the class discussion online in the Sakai discussion boards for one of the weeks on the syllabus. Second, you are expected to write a short reflection post in Sakai every week (about 400 words.) Third, you will be asked to write a paper due at the end of the class and you will make a 10 minute presentation on the paper you have written.

### Course Requirements:

1. *Reading/Viewing/Participation:* Students are expected to complete assigned readings and viewings **before** coming to class. You are also expected to participate in class discussion on Sakai about the readings. This is \*not\* a lecture class and you are expected to be participating in all aspects of the class. 40% of your grade comes from participation online and offline reaction/reflection papers.
2. *Reflection papers:* You will post a short reflection paper on Sakai every week. This is 15% of your grade.
3. *Attendance:* Attendance is required and what makes the class work. You may miss one class without any penalty in grades; after that, I will subtract 3% for each class that you miss without prior approval or significant reason.
4. *Final Paper:* All students will produce a final paper on a topic. The final paper should be 20 pages or about 5,000 words for graduate students and 10 pages, or 2500 words for undergraduate students. Topic must be cleared with the instructor. The paper will be due on the day of the final of the class. More instructions on the format of the paper will be. I am open to considering non-paper type final projects (software, videos, web pages) but these must be cleared with me in advance. Keep in mind that a non-paper final project needs to demonstrate the same kind of qualities I am looking for in a paper: conceptual depth; analytic clarity; interesting and thoughtful raising of topics related to the class topics. This is 40% of your grade.
5. *Presentation:* You will be expected to make a 10 minute presentation about the topic of your paper to the class at the end of the class. You will be graded on clarity of presentation, keeping to the time limit, keeping it interesting and convincing us that this is a significant and interesting topic. This is 5% of your grade.

### Students with Disabilities:

If you have a documented disability, please inform the instructor and appropriate accommodations will be provided. Accommodations and services are provided by Disability Services and they can be reached by calling 919-962-8300 or <http://accessibility.unc.edu/>

### Policy on Academic Dishonesty:

All students must follow the UNC Honor Code. You must follow standard guidelines for citation, not use other people's ideas, work or sentences without crediting them, and you must not receive or provide unauthorized assistance. Your work must be yours! Here's a tutorial on plagiarism which you can use to help you make decisions: <http://www2.lib.unc.edu/instruct/plagiarism/>

When in doubt, consult with the professor or the class assistant. Plagiarism will result in failing the class. More information can be found at <http://studentconduct.unc.edu> including the following outline of the UNC honor code:

"The University of North Carolina at Chapel Hill has had a student-led honor system for over 100 years. Academic integrity is at the heart of Carolina and we all are responsible for upholding the ideals of honor and integrity. The student-led Honor System is responsible for adjudicating any suspected violations of the Honor Code and all suspected instances of academic dishonesty will be reported to the honor system. Information, including your responsibilities as a student is outlined in the Instrument of Student Judicial Governance. Your full participation and observance of the Honor Code is expected."

**Schedule for INLS 690 Fall 2017: Big Data, Algorithms and Society**

**Professor: Zeynep Tufekci**

|            |   |
|------------|---|
| Mon Aug 28 | Introduction to Class   |
| Mon Sep 4  | Labor Day Holiday! No class!                                      |
| Mon Sep 11 | Surveillance Capitalism and Big Data: Overview                    |
| Mon Sep 18 | Algorithms, Models and Machine Learning                           |
| Mon Sep 25 | Silicon Valley: Culture, Business Model and Legal Framework       |
| Mon Oct 2  | Artificial Intelligence and Skill, Work and Employment            |
| Mon Oct 9  | Crime and Punishment via Predictive Analytics                     |
| Mon Oct 16 | Big Data Politics and Surveillance Authoritarianism               |
| Mon Oct 23 | Algorithmic Culture   |
| Mon Oct 30 | War, Weapons and Killer Robots                                    |
| Mon Nov 6  | Affective Algorithms: Automating Care                             |
| Mon Nov 13 | What Happened the Last Time? The First Industrial Revolution      |
| Mon Nov 20 | Preparation for and Oversight in the age of Machine Intelligence? |
| Mon Nov 27 | Presentations   |
| Mon Dec 4  | Presentations / Reflections                                       |