

Syllabus for MATH/CSCI 485 - Spring 2020

You can download the Syllabus in PDF form by clicking [this link].

Logistics

- **Course Name:** Advanced Topics in Data Science (a.k.a. ADS or DATA 485)
- **Instructor:** Dr. Robin Donatello (Dr. D, she/her/hers)
- **Office Location:** Holt 202
- **Telephone:** 898-5767
- **E-mail:** rdonatello@csuchico.edu
- **Best Contact Method:** Slack.
- **Office Hours:** TBD Week 2
- **Meeting time and locations:** TR 2-3:30 pm Holt 155
- **Prerequisites:**
 1. Introduction to Data Science (DATA 385).
 2. Math 456 (*or co-requisite*)
 3. Or instructor permission
- **Course Website:** <http://norcalbiostat.github.io/MATH485/>
- **Slack Channel** <http://csuc-ads.slack.com> You will be sent an email invitation to your campus email.
- **Google Drive** You will be added to the Drive folder using your campus email.

Required Materials

- **Computer**
 - A laptop is nearly invaluable, bring to class every day.
 - Loaner laptops will be available during class time only.
 - A solid internet connection is a must. We will be using a lot of online resources.
- **Computer Software:** R, R Studio, LaTeX. Make sure everything is up to date. May need Python at a later point.
- **Textbooks**
 - Introduction to Statistical Learning <http://www-bcf.usc.edu/~gareth/ISL/> (free)
 - Weapons of Math Destruction, Cathy O'Neil (2016) ISBN-10 0553418815 - Available for checkout in the library.
 - Doing Data Science, Cathy O'Neil, Rachel Schutt (2014) ISBN-10 978-1-449-35865-5
- **Accounts (Free)** Github, Slack, Twitter, HackMD

Interdisciplinary Collaboration Project

We will be doing a joint project with Political Science Graduate students (POLS 624). The project will be a twitter analysis of public opinion. You will work with a team of PolSci students, where you will provide technical and coding support and they are the content experts.

We will also have a joint Slack channel with this class, and you will be helping them learn R through a series of reviews of their "Learn R (Math 130)" homework assignments, and attending Community Coding.

More details can be found on the Project page of the course website.

Grading

The *approximate* contributions per type of activity are: Participation, Reading assignments XX%, Textbook Assignments XX%, and Project XX%. There are no formal exams.

Letter Grade Conversion: 100-90%: A, 89-80%: B, 79-70%: C, 69-60%: D, 0-59%: F

Policies

Adding and Dropping the course

The last day to add or drop classes without special permission by the instructor is 1/31/20. No adds or drops are allowed after 2/14/20 without a serious and compelling reason approved by the instructor, department chair, and college dean.

Americans with Disabilities Act

If you need course adaptations or accommodations because of a disability or chronic illness, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Please also contact Accessibility Resource Center (ARC) as they are the designated department responsible for approving and coordinating reasonable accommodations and services for students with disabilities. ARC will help you understand your rights and responsibilities under the Americans with Disabilities Act and provide you further assistance with requesting and arranging accommodations.

Accessibility Resource Center
530-898-5959
Student Services Center 170
arcdept@csuchico.edu

Chico State Basic Needs Project

The **Hungry Wildcat Food Pantry** provides supplemental food, fresh produce, CalFresh application assistance and basic needs referral services for students experiencing food and housing insecurity.

All students are welcomed to visit the Pantry located in the Student Service Center 196, open Monday-Friday, 11am-4pm or call 530-898-4098.

Please visit the Chico State Basic Needs website <http://www.csuchico.edu/basic-needs> for more information.

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