

Course Syllabus Part II

DSC 680 – Applied Data Science

3 Credit Hours

Course Resources

Doing Data Science: Straight Talk from the Frontline. Cathy O’Neil and Rachel Schutt. O’Reilly Media
ISBN-10: 1449358659 ISBN-13: 978-1449358655

Required Resources:

In this course, you will need to be able to:

- Access the Internet.
 - Access Cyberactive.
 - Collaborate Online via Video and Voice.
 - Collaborate while writing a single document.
 - Submit a Word Document.
 - Access to GitHub account.
 - Python or R programming environment
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Course Schedule

Weeks	Topic
1	Project 1 Proposal
2	Project 1 Check-In Portfolio Milestone 1
3	Project 1 Write-up Peer Review 1
4	Project 1 Presentation
5	Project 2 Proposal Portfolio Milestone 2
6	Project 2 Check-In Peer Review 2
7	Portfolio Milestone 2 Project 2 Write-Up
8	Project 2 Presentation
9	Project 3 Proposal Portfolio Milestone 3
10	Project 3 Check-In Peer Review 3
11	Project 3 Write-Up Peer Review 4
12	Portfolio Submission Project 3 Presentation

Course Activities

In this section of the syllabus, I will describe what we will be doing in each of the activities for the course. Specifically, I will be describing your deliverables – those items you need to submit at or before the deadline. You can find more detail on grading criteria for each category by viewing its detailed rubric. You will find links to the rubrics in the activities.

Portfolio

In this course, you will work to refine your project portfolio. You likely have been building a portfolio from previous courses, however, if you have not, then you will be creating one from previous course work and this course. The portfolio serves as a guide to potential employers to show what you can do and what you have learned or taught yourself. You will have 4 portfolio milestones to complete, which includes the final submission.

Peer Reviews

You will submit a review of your peers' portfolios. The reviews should be written with constructive feedback and are intended to help your fellow classmates establish their portfolio, identify areas they have gaps or errors, etc. There will be a form and write-up you submit with each critique. You will have 4 peer reviews to complete.

Projects

During the course, you will be working on three data science projects, that contain a proposal, checking-in, write-up and presentation. You will be performing 3 analyses and presentations with data that is useful to you. You will be able to use R or Python to solve the problems.

Grade and Point Breakdown

<u>Component:</u>	<u>Percentage</u>	<u>Point Value Each Week</u>	<u>Number of Times</u>	<u>Total</u>
Portfolio Milestones	25%	50 Points	4 Submissions per course	200
Peer Reviews	25%	50 Points	4 Submissions per course	200
Projects	50%	200 Points	3 Submissions per course (each assignment in Project worth 50 pts, 4 total assignments)	600
Total Points				1000

Late Work

Late work is not accepted unless arrangements are made with the instructor for very special, unavoidable circumstances. If you do not alert the professor before or shortly after something that will make you late, the chances of special arrangements are much lower. If in doubt, please email as soon as possible.

Participation

Students are expected to login often and contribute to the class on a regular basis, including posting to the discussion board, submitting assignments, and participating in group activities as required. If you have specific participation requirements related to your educational funding or student status, you are expected to monitor your own participation to ensure you are in compliance with those requirements.

Expectations for Students

- Students should expect to spend approximately 10-15 hours per week to complete the activities and assignments in this course.
 - Students will log in as often as needed to complete their assignments and progress through the course.
 - Students will treat their classmates and the instructor with respect and courtesy.
 - Students are responsible for keeping current with the reading assignments and coming to class prepared to discuss the work assigned.
 - Students are responsible for knowing what assignments are due and when.
 - Students will submit only their own work and will not commit plagiarism or other acts of academic dishonesty.
 - Students will contact the instructor as soon as personal problems arise that may affect the student's ability to complete assignments on time.
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Expectations for Faculty

- The instructor will treat all students with respect and courtesy.
- The instructor will make grading criteria clear and follow the criteria scrupulously in evaluating student work.
- The instructor will provide feedback about student work within 6 days of due dates (or 24 hours prior to the next due date)—feedback that helps the student learn and improve.
- The instructor will respond to all student messages within 48 hours.