

**Course Syllabus Part II**  
**DSC 680 – Applied Data Science**  
**3 Credit Hours**

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**Course Resources**

No textbook required

**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 – 4	Project 1 Proposal Project 1 Draft Project 1 Presentation Portfolio Milestone 1 Discussion/Participation
5 – 8	Project 2 Proposal Project 2 Draft Project 2 Presentation Portfolio Milestone 2 Discussion/Participation
9 – 11	Project 3 Proposal Project 3 Draft Project 3 Presentation Portfolio Milestone 3 Program Assessment Discussion/Participation

**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.

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### 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 3 portfolio milestones to complete, which includes the final submission.

### Projects

During the course, you will be working on three data science projects, that contain a proposal, draft, 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.

### Discussion/Participation

Every week you will be required to make 10 posts via an online platform. The goal is to simulate real world discussion and participation – there will not be formal posts required or required topics to discuss. There may be optional topics provided to start discussion, however, sharing information, troubleshooting, asking questions/feedback, etc. will be the primary focus for discussion/participation. Discussion/Participation will be graded as follows:

0	0%
5	50%
10	100%

### 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	20%	80	3 submissions per course	240
Discussion/Participation	20%	24	10 Posts per Week for 10 Weeks, no discussion required in Week 11	240
Project Milestones	10%	20	Milestones 1 & 2 (Proposal & Draft), 20 points for each milestone – 6 total for the course	120
Project Presentation	40%	160	3 submissions per course	480
Program Evaluation	10%	120	1 Submission per course	120
			<b>Total Points</b>	<b>1200</b>

### 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.

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## **Participation**

Students are required to login often and contribute to the class on a regular basis, including posting in the online platform, 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.

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## **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.