# Course Syllabus Part I
# DSC 680 Applied Data Science

## 3 Credit Hours

### Course Description
In the final course of the Data Science program, students will conduct several data science projects from origin-to-presentation. Students will gather data, then prepare, clean, analyze, and present their analysis to an audience.

### Course Prerequisites

Completion of all other required DSC courses

### Course Objectives
Students who successful complete this course should be able to:

1. Organize existing portfolio of project work to demonstrate application of full data science process
2. Create or add-to portfolio of project work to fill in gaps that demonstrate application of full data science process
3. Critique peers' portfolios and resumes and provide suggestions to improve
4. Explore and recommend data sets to use for analysis and further processing
5. Solve hypothetical interview questions by applying data wrangling techniques
6. Generate reports of findings from exploratory data analysis
7. Design visualizations and presentations with findings from analysis
8. Role-Play summarizing information discovered during analysis to a client or audience

### Grading Scale

| 93 – 100% = A | 87 – 89% = B+ | 77 – 79% = C+ | 67 – 69% = D+ |
|---|---|---|---|
| 90 – 92% = A- | 83 – 86% = B | 73 – 76% = C | 63 – 66% = D |
| | 80 – 82% = B- | 70 – 72% = C- | 60 – 62% = D- |
| | | | 0 – 59% = F |

Effective Date of Syllabus: July 30, 2018

**Topic Outline**

  I.  Building, Establishing, and Maintaining a Project Portfolio
  II.  Finding Datasets
  III.  Exploratory Data Analysis
  IV.  Data Wrangling and Transformation
  V.  Data Visualization and Presentation
  VI.  Preparing for Interviews

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