# 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**

| Letter Grade | Percentage Grade | Letter Grade | Percentage Grade |
|---|---|---|---|
| A | ≥ 92.5% | C | < 76.5% and ≥ 72.5% |
| A- | < 92.5% and ≥ 89.5% | C- | < 72.5% and ≥ 69.5% |
| B+ | < 89.5% and ≥ 86.5% | D+ | < 69.5% and ≥ 66.5% |
| B | < 86.5% and ≥ 82.5% | D | < 66.5% and ≥ 62.5% |
| B- | < 82.5% and ≥ 79.5% | D- | < 62.5% and ≥ 59.5% |
| C+ | < 79.5% and ≥ 76.5% | F | < 59.5% |

Effective Date of Syllabus: April 1, 2024

**Topic Outline**

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

*This syllabi update reflects grading scale policy updates effective 4/1/2024.*

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