

Brief Course Outline

Course Title:	Data Science
Course Number and Section:	MOS 3335A 550
Instructor Name(s):	Dr. Aria Teimourzadeh
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Disclaimer: Information in the brief course outline is subject to change. The syllabus posted on OWL is the official and authoritative source of information for the course.

Course Description:

Data science is the field of study that combines domain expertise, programming skills, and knowledge of mathematics and statistics to extract meaningful insights from data. This course will focus on simultaneously teaching introductory skills needed to collaborate on teams with data scientists, analysts, and other information professionals. Topics include: Database Management, Data Science methods in Python, Data Visualization techniques, Machine Learning technique case studies, critical Topics in Big Data and Emerging AI Technologies.

Learning Outcomes:

- Build and manage a database
- Develop interdisciplinary skills on how to integrate critical and creative thinking with examples from computational tools.
- Apply analytical techniques to datasets to produce insights for decision making.

Textbooks and Course Materials:

No textbook is required.

Methods Of Evaluation:

Assignment	Due Date mm/dd/yy	Weight - %
Weekly Assignments		20%
Midterm Exam		31%
Quiz		14%
Group Assignment		35%

In solidarity with the Anishinaabe, Haudenosaunee, Lūnaapéewak, and Chonnonton peoples on whose traditional treaty and unceded territories this course is shared.