

Enroll in MAT 1455

Introduction to Data Science

Data Science Mathematics Using R!

Are you interested in a mathematics course that utilizes “R” and whose standards are taught applied to Data Analytics?

“MAT 1455 Introduction to Data Science” is a new course developed under the National Science Foundation (NSF) Data Analytics Pipeline Grant.

This course is being offered this Spring 2023 from 4:30 – 6:45 p.m. on Tuesday and Thursday on the Downtown campus. This course is part of the “Data Literacy Foundation” Short Term Certificate and the Data Analytics DATA.S.AAS Degree.

An introductory course in data science for students interested in information technology, computer science, and related fields. Topics include curation of data; enhanced data visualization; statistical models, estimation, and prediction; and applications of data science.

Prerequisites: MAT 0300 and Other (with a grade of "C" or better)

Course Outcomes

- Define machine learning and statistical learning technique, classify data using machine learning techniques, differentiate between supervised and unsupervised learning technique.
- Differentiate between settings where methods of analysis of data will lead to biased results and to unbiased results, show bias in its various forms.
- Distinguish between types of data, acquire raw data, organize, standardize, and clean this raw data.
- Classify and summarize data using appropriate charting techniques based on the type of data, identify common distribution models and select the model that fits the data, predict a time series plots for the data.
- Use probability distributions to approximate probabilities, estimate parameters, and make predictions.

Tuesday & Thursday, 4:30 – 6:45 p.m.

2023 Spring Semester

on the Downtown Campus

Science, Mathematics and Engineering

Questions? Contact Najat Baji

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**MAKE YOUR
BREAKTHROUGH**

