

# DATA ENGINEERING, GRADUATE CERTIFICATE

---

## Curriculum

To earn a certificate, students must complete the following four courses:

Course	Title
MSDS 402-DL or MSDS 403-DL	Introduction to Data Science <sup>1</sup> Data Science in Practice
MSDS 420-DL	Database Systems and Data Preparation
MSDS 422-DL	Practical Machine Learning
MSDS 432-DL	Foundations for Data Engineering

<sup>1</sup> **Which course should students take?**

- Students without a background in data science should select MSDS 402-DL Introduction to Data Science.
- Students with a background in data science should select MSDS 403-DL Data Science in Practice. Students who have at least two years' experience in the field and have or have had a title, such as data scientist, data analyst, statistician, data engineer, business analyst, etc. should select this course.