



MS-DS + AI Certificate (30 credits)

Specializations applying to MS-DS Only:

Data Science Foundations: Statistical Inference
(3 credits)

Data Science Foundations: Data Structures & Algorithms
(3 credits)

Vital Skills for Data Scientists
(4 credits)

Data Mining Foundations & Practice
(3 credits)

Statistical Modeling for Data Science
(3 credits)

Databases
(2 credits)

Specializations applying to MS-DS + AI Certificate:

Machine Learning (3 credits)
(crosslisted - take DTSA versions)

Electives (9 credits):

Natural Language Processing (3 credits)
(under development)
(Take DTSA versions)

+

6 Outside CSCA Elective Courses
(PICK TWO SPECIALIZATIONS IN BLUE BELOW)

- **Foundations of Autonomous Systems (3 credits)**
- **Introduction to Robotics with Webots (3 credits)**
- **Generative AI (3 credits)**
- **Reinforcement Learning (3 credits)**
- **Artificial Intelligence (3 credits)**

Notes:

- In order to earn the MS-DS degree, the DS Certificate, and the AI Certificate, you will need to declare each program using Program Action Form in Buff Portal.
- In order to apply outside electives (CSCA courses - up to 6 outside electives allowed), you will need to complete the 'outside electives' survey that you will receive in your email near the end of each session.
- Not all AI certificate courses are fully developed, and we do not have estimates on when they will be available.
- Electives cannot be mixed and matched and in order to earn the credentials as listed, you will need to complete each specialization in full.