Data Science, **Minor**

LADATSCMIN

See your current field of study through a new lens. By becoming a skilled producer, user and manipulator of data, you can make informed decisions about the world around you.

**Description**

A minor in data science provides students with skills in statistics, probability and coding in the context of large data sets. Students in this minor become useful consumers and producers of data. They understand and manipulate data sets to make conclusions and recommendations that can have an impact in real world settings.

**At a Glance**

- **College/School:** [The College of Liberal Arts and Sciences](#)
- **Location:** Tempe campus or online

**Program Requirements**

- [Minor Map (Archives)](#)
- [2021 - 2022 Minor Map](#)

The minor in data science consists of a minimum of 25 credit hours. A grade of "C" (2.00 on a 4.00 scale) or better is required for courses used in the minor.

**Required Courses -- 25 credit hours**

- [DAT 250: Data Science and Society](#) (3)
- [DAT 300: Mathematical Tools for Data Science](#) (3)
- [DAT 301: Exploring Data in R and Python](#) (4)
DAT 401: Statistical Modeling and Inference for Data Science (3)
DAT 402: Statistical Learning (3)
MAT 265: Calculus for Engineers I (MA) or MAT 270: Calculus with Analytic Geometry I (MA) (3-4)
MAT 266: Calculus for Engineers II (MA) or MAT 271: Calculus with Analytic Geometry II (MA) (3-4)
MAT 343: Applied Linear Algebra (3)

Depending on a student's undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this minor.

Enrollment Requirements

GPA Requirement: N/A

Incompatible Majors: All majors in the School of Mathematical and Statistical Sciences

Other Enrollment Requirements: N/A

Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. A student should consult their academic advisor to declare the minor and to ensure that an appropriate set of courses is taken. Minor requirements appear on the degree audit once the minor is added. Certain major and minor combinations may be deemed inappropriate by the college or department of either the major program or the minor. Courses taken for the minor may not count toward both the major and minor. Students should contact their academic advisor for more information.

Attend Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information here.

Career Opportunities

A minor can help students enhance the marketable skills they acquire in their major program and help them develop new skills apart from it, though most career areas do require more training than a minor alone can provide.

A minor in data science can help students with mathematical, statistical and computational modeling; data analysis; programming; and critical thinking skills as they pursue careers in business, medicine, insurance and research (governmental and private sector). The intent of this minor is to apply the skills learned into any academic field of study to enhance the understanding of an increasingly data-based society.