University of San Diego

Master of Science in Applied Data Science

Earn Your Degree In-person at University of San Diego

- Ranked Among Top 50 Best Colleges in the U.S. (Wall Street Journal)
- #1 Most Beautiful Campus (The Princeton Review)
- #3 Best Quality of Life (The Princeton Review)
- #9 Best College Food in America (Best Colleges)

Personalized Student Advising & Support

- Join a community committed to one common goal - your success!
- Guidance and support from USD's Career Development Center

Program at a Glance

- Develop practical and technical skills to become a premier data scientist
- Learn foundational and advanced analytics skills introduced through real-world examples and applications taught by active industry experts
- The need for skilled data scientists cuts across nearly all industries, public agencies and nonprofits with particularly strong demand and opportunity in fields such as:

  - Technology
  - Finance
  - Retail
  - Media
  - Healthcare
  - Telecom
  - Manufacturing
  - Cybersecurity
  - Government & Military
  - Energy
  - Automotive
  - Utilities

- Administered by an elite faculty and supported by an Advisory Board of experienced data science practitioners from top companies
- Actively learn through in-depth and project-based courses with in-demand toolkits such as Python, R, SQL, AWS and many more
- Prerequisite courses to assist students in building a strong fundamental knowledge to succeed throughout the program
- Conclude the program with a hands-on practicum capstone project and final paper

IN PERSON

Learn in person with your peers at USD's beautiful campus

20 MONTH PROGRAM

- Complete the program in 4 semesters
- Intakes in Fall and Spring
- No required coursework over the Summer

36 UNIT PROGRAM

Students take three courses per semester

TUITION

Per Unit: $2,000
Total Cost: $72,000
Scholarships Available

CONTACT

datascience@sandiego.edu

Regionally Accredited by

WASC | Senior College and University Commission

In the era of Big Data, employers across all industries are paying top dollar to data scientists capable of using advanced skills to uncover valuable insights hidden in the vast amounts of data produced every single day.

POSITION YOURSELF FOR SUCCESS IN THIS IN-DEMAND FIELD

Taught by expert industry practitioners, the MS in Applied Data Science program has been developed in close collaboration with key industry and government stakeholders to provide in-depth practical and technical training designed to position graduates for career success in this vitally important and fast-growing field.

PROGRAM OBJECTIVES

- Successfully create, apply, and practice the mastery of data science methods, tools, and programming abilities (technical skill sets) for the analysis of structured and/or unstructured datasets.
- Learn, develop, and demonstrate non-technical skill sets, such as problem-solving, statistical thinking, creativity, critical thinking, storytelling, presentation ability (written and oral), and other soft skills in addressing data-driven projects. Build high-performing and compelling data science teams.
- Apply data science and data engineering related to AI, machine learning, and predictive modeling for the development of data-driven products, business strategies, and actionable insights.
- Evaluate ways data science positively impacts enterprise and society. Recommend strategies for partitioning and protecting data based on ethics, regulatory, and other requirements.
- Serve as active leaders and managers of data science multiple functions within organizations.

ADMISSION REQUIREMENTS

- Bachelor's degree in a professional field (STEM) from a regionally accredited institution
- Bachelor's GPA of 3.0 or higher
- TOEFL scores of 83 or minimum Duolingo English Test score of 120 (if applicable)
- Statement of purpose
- Letter of support from the candidate's employer or two letters of reference
- Resume or curriculum vitae
- Applicants are also required to complete an Applied Data Science Self-Assessment Test in preparation for the program. Your enrollment adviser will share further details about this self-assessment
- Students are required to bring a laptop to all courses

COURSE LIST

Students take three courses each semester. The courses offered include:

- Probability and Statistics for Data Science
- Data Science Programming
- Foundations of Data Science and Data Ethics
- Applied Data Mining
- Applied Predictive Modeling
- Machine Learning and Deep Learning for Data Science
- Applied Data Science for Business
- Applied Time Series Analysis
- Practical Data Engineering
- Data Science with Cloud Computing
- Applied Text Mining
- Capstone Project

Learn more at sandiego.edu/engineering/graduate/

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