

Master of Science in
DATA SCIENCE AND STRATEGIC ANALYTICS



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STOCKTON | GRADUATE
UNIVERSITY | STUDIES

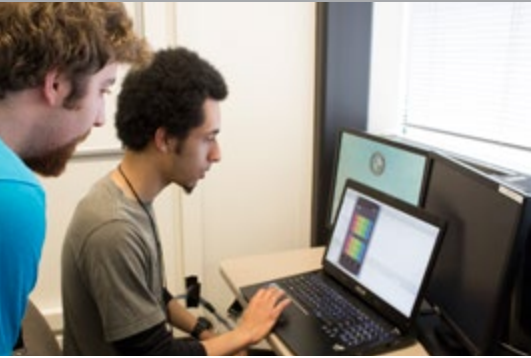


Master of Science in Data Science and Strategic Analytics | [DSSA](#) ABOUT THE PROGRAM

The Data Science and Strategic Analytics Program at Stockton is a self-standing, master's degree program. A student entering the program will acquire substantial experience in sophisticated, industry standard, computational software and programming tools that will allow the student to explore data driven problems in the sciences, business, social science, medicine and/or the humanities. Students will also develop skills in data analysis, presentation, and visualization; skills that will permit them to visualize results and make predictions. The course work is supplemented with real world projects and/or industry internships with industry providing experience and networking opportunities in industry or research.

About the Data Industry Data scientists develop solutions for gathering, cleaning, archiving, analyzing and visualizing data for the purposes of making informed decisions. Some examples of data science projects include:

- **Business:** Use historical discounting data from a department chain store's at one thousand locations to predict how sales vary with department, season and location.
- **Entertainment:** Perform a sentiment analysis on the tweets about summer blockbuster movies sentiments and use to predict future box office takings based on movie genre, actors etc.
- **Science:** Analyze the jpg images of one million galaxies to categorize them according to their morphology.
- **Health:** Predict disease likelihood by exploring and correlating patient case history and genetic databases.
- **Criminal Justice:** Gather and visualize a city's real-time crime statistics for a city for efficient resource deployment.
- **Education:** Create a web-based dashboard to for describing student performance metrics across a school district.



ADMISSIONS CRITERIA

Prerequisite Requirements

- Baccalaureate degree from a regionally accredited institution of higher education.
- Minimum undergraduate GPA of 3.0 and an average GPA of 3.2 or better derived from all quantitative courses.

Students with undergraduate degrees in quantitative subject areas (e.g. science, math, computer science, business) with experience in descriptive statistics, college algebra, data processing/analysis, computer and mathematical skills will make up the vast majority of applications and enrollments. A typical applicant would be expected to demonstrate advanced undergraduate coursework in statistics and computing. All applicants will be evaluated individually by a faculty committee.

To be considered for admission to the DSSA master's or certificate program, applicants must submit the following:

- Discover Stockton Online Application
- Application fee: \$50 (non-refundable), submitted with your online application
- Graduate application essay including description of computing experience
- Three current letters of recommendation sent electronically via the Discover Stockton Application (preferably at least one from a faculty member).
- Official transcripts from all colleges/universities attended (including Stockton) showing successful completion of a baccalaureate degree from a regionally accredited institution.
- Resume
- The TOEFL Exam is required of students for whom English is the second language.

The Master's degree program consists of 30 credit hours (10 graduate courses) that can be completed in full-time (or part-time study). In full-time study it may be completed in one calendar year (Fall, Spring, and Summer semesters). The courses are offered online as a hybrid (students will meet with faculty once a week at Stockton's Kramer Hall Instructional Site).



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FOR INFORMATION ABOUT THE PROGRAM

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Please visit the Office of Graduate Studies website for the most updated information at stockton.edu/grad. While every effort has been made to ensure the accuracy of the information contained in this publication, university policies and curricula may change.