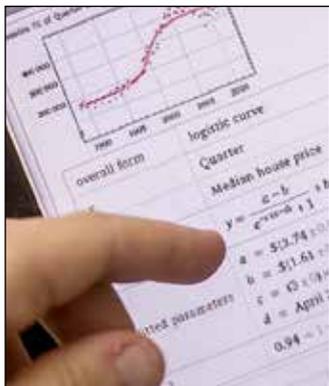


# Data Science

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## DEPARTMENT DESCRIPTION

A Data Scientist is a professional who combines many types of technical and industry competencies to turn data, which is very often idiosyncratic and ambiguous, into actionable intelligence in a business environment. The skills needed to make this transformation draw from mathematics, statistics, computer science, and business, and require the ability to communicate technical information to people with a range of technical competence. Saint Mary's Master of Science in Data Science program is designed to rapidly bring students to the point of functioning in the role of a data scientist and then, building on the initial growth, to develop expertise with their data science skills.

Data-driven decisions are made across most major industry sectors on a daily basis. This means the work of data scientists can be done by those from an array of backgrounds as long as they have a foundation in the skills listed above, namely, mathematics, statistics, and computer programming. At Saint Mary's students can earn a bachelor's degree, in any area, and the data science master's degree in just five years.

## 4+1 PATHWAY FOR SAINT MARY'S UNDERGRADUATE STUDENTS

Saint Mary's undergraduate students meeting the prerequisites set forth below may apply to the Master of Science in Data Science program as a second semester junior or first semester senior. If admitted to the graduate program, students will complete two graduate courses in data science in the senior year prior to baccalaureate graduation. The student will continue data science courses in the summer term immediately following her baccalaureate graduation and continue for the next fall, spring, and summer terms to complete the bachelor's and graduate degree in five years.

### Prerequisites

- Calculus I
- Calculus II
- Statistics
- Computer Programming
- Linear Algebra (or equivalent)
- Completion of one graduate Data Science course (only for those applying in fall semester of her senior year)

For more details about the Master of Science in Data Science program, refer the *Graduate Policies and Programs* section.