

Undergraduate College

# **Business Analytics**

The business analytics track is designed to expose students to the skills, methods, and practices that are useful for data-driven decision making. This multidisciplinary field has strong roots in computer science, information science, mathematics, operations, and statistics. Topic areas include data organization and management, computer programming, data mining and machine learning, optimization, and statistical methods, used to both investigate past business performance and predictively model future performance. This track provides preparation for careers in a wide range of fields at companies that are committed to the use of data to gain insights about their business (including consulting, entrepreneurship, financial services, marketing, risk management, sales, social media, and technology), as well as graduate school in the social sciences.

## **Track Adviser**

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*Important note:* Students must fulfill all required prerequisites for any course listed. For information regarding course prerequisites, please refer to the Undergraduate Bulletin (www.stern.nyu.edu/bulletin) and for College of Arts and Science courses (http://cas.nyu.edu/page/majorminors).

#### **Prerequisites**

- Calculus I (MATH-UA 121) or higher
- Statistics for Business Control and Regression/Forecasting Models (STAT-UB 103 OR STAT-UB 1 & STAT-UB 3)

Although not formally part of the track, students in this track would probably benefit from also taking other courses listed in the digital marketing track, such as Networks, Crowds, and Markets (INFO-UB 60).

# **Essentials**

- Data Mining for Business Analytics (INFO-UB 57)
- Regression and Multivariate Data Analysis (STAT-UB 17)
- Introduction to Programming for Data Science (INFO-UB 23)

## **Advanced Electives**

Four courses from the following list , including courses from at least two of the four categories indicated:

- Mathematics Calculus II (MATH-UA 122), Linear Algebra (MATH-UA 140), Discrete Mathematics (MATH-UA 120)
- Statistics Forecasting Time Series Data (STAT-UB 18)
- Information Systems Data Analytics in Digital Marketing (INFO-UB 38), Search and the New Economy (MULT-UB 36)
- Operations Management Decision Models & Analytics (MULT-UB 7)