

Curriculum & Courses

36 points for degree completion*

On-campus and online instruction

Part-time or full-time program**

Fall and spring intake

3-6 consecutive terms to complete

* Non-native English speakers may be required to complete a one-credit oral communication course during their first semester, raising the point total for degree completion to 37 points.

** International students are responsible for ensuring they have read and understand the University's student visa application eligibility and requirements. Please note that it is not permissible to enroll while in B-1/B-2 status. In addition, if studying on a student visa, you must enroll full-time (12 credits per term) and study on campus.

The program consists of required courses in two core areas. The **Leadership, Management, and Communication Core** develops an enterprise-wide perspective on data and the knowledge, skills, and abilities needed to inspire, create, and foster an analytical culture within an organization. The **Applied Analytics Core** develops a broad understanding of the frameworks for the use of data to inform real-life business problems from data collection to application in decision-making. This core introduces you to the methods and range of tools and systems that organizations use to conceptualize, collect, manage, and analyze data to produce information to make it actionable across their enterprise.

For your elective study, you will align the foundational skills you've developed in the two core areas with three courses you choose that are pertinent to your academic and professional goals. Elective courses in a wide range of subjects, including business, finance, marketing, information visualization, collaboration, communication, and negotiation, let you obtain in-depth knowledge in a particular industry or functional area within an organization.

Completing your **Capstone Project**, you will apply what you have learned in the two core components to a real-world analytics project sponsored by a leading organization.

Students requiring an F1 visa must enroll full-time (12 credits) and study on campus. Students on an F1 visa are permitted to complete no more than one online class each semester. Students not on an F1 visa have the flexibility to enroll in courses online or on-campus.

Required Full-Time Sequence

Fall or Spring Intake

SEMESTER 1

Applied Analytics in the Organizational Context

Analytics and Leading Change

Research Design

Master of Science in Applied Analytics Pre Fall-2018 Curriculum

Applied Analytics Frameworks and Methods

Oral Communication (if required*)

SEMESTER 2

Strategy and Analytics (formerly Strategic Leadership in Analytics-Focused Organizations)

Managing Data (formerly Modern Database Architecture)

Storytelling with Data (Strategic Communications)

Elective

SEMESTER 3

Data Visualization & Design

Elective

Elective

Capstone Project: Solving Real World Problems with Analytics

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Required Part-Time Sequence

Fall Intake or Spring Intake

SEMESTER 1

Applied Analytics in the Organizational Context

Applied Analytics Frameworks and Methods

Oral Communication (if required*)

SEMESTER 2

Analytics and Leading Change

Research Design

SEMESTER 3

Master of Science in Applied Analytics Pre Fall-2018 Curriculum

Strategy and Analytics (formerly Strategic Leadership in Analytics-Focused Organizations)

Managing Data (formerly Modern Database Architecture)

SEMESTER 4

Storytelling with Data (formerly Strategic Communications)

Elective

SEMESTER 5

Data Visualization & Design

Elective

SEMESTER 6

Capstone Project: Solving Real World Problems with Analytics

Elective

** Non-native English speakers may be required to complete a one-credit oral communication course during their first semester, raising the point total for degree completion to 37 points.*

Core Courses

Leadership, Management, and Communication Core

- Applied Analytics in the Organizational Context
- Analytics and Leading Change
- Storytelling with Data (formerly Strategic Communications)
- Strategy and Analytics (formerly Strategic Leadership in Analytics-Focused Organizations)

Applied Analytics Core

- Applied Analytics Frameworks and Methods
- Research Design
- Managing Data (formerly Modern Database Architecture)
- Data Visualization & Design

Capstone Project

- Capstone Project: Solving Real World Problems with Analytics (formerly Building Data-Savvy Organizations)

Master of Science in Applied Analytics Pre Fall-2018 Curriculum

Please visit the program's [Curriculum and Courses](#) page to review course summaries and the list of approved electives.