







BUSINESS CONTEXT

The entire program focuses on the use of analytics in business, equipping graduates to assume data analytics leadership roles in all kinds of industries.

MANAGEMENT FUNDAMENTALS

Core concepts of management, marketing, finance, and team leadership provide a solid foundation for building a career in business analytics.

TECHNICAL CAPABILITIES

Courses in data harvesting and engineering, programming, and application development prepare students to configure the technologies that power analytics.

MULTI-METHOD DATA ANALYSIS

Statistics, machine learning, predictive analytics, modeling, visualization, and other advanced methods teach students to extract value from data.

EXPERIENTIAL LEARNING

The curriculum is infused with opportunities to tackle complex business problems using real data sets from nationally known companies.

Our
Management
Information Systems
Specialty is consistently
ranked in the
TOP 5
by U.S. News &
World Report

STUDY WITH RECOGNIZED EXPERTS

Widely recognized as the birthplace of management information systems, the Carlson School consistently ranks among the top programs for the discipline. Our faculty bring field-leading expertise and research to the classroom.

MEET A FEW PROFESSORS

Ravi Bapna

CURTIS L. CARLSON CHAIR IN BUSINESS ANALYTICS AND INFORMATION SYSTEMS, INFORMATION & DECISION SCIENCES Expert in these areas: peer influence in online social networks and big data analytics



Akhmed Umyarov

ASSISTANT PROFESSOR, INFORMATION
AND DECISION SCIENCES

Expert in these areas: data mining,
experimental design, statistics, social
media, big data

> Svjetlana Madzar

SENIOR LECTURER, WORK & ORGANIZATIONS Expert in these areas: international team collaboration and management



Maria Ana Vitorino

ASSISTANT PROFESSOR, MARKETING

Expert in these areas: empirical
applications of statistics and economic
models to marketing



REAL BUSINESSES. REAL DATA. REAL EXPERIENCE.

Hands-on learning is a hallmark of the Carlson School. Classes incorporate case-based study with real data sets that are complex, interesting, often messy, and challenging. Students gain experience using analytics to solve problems real businesses face.







CAPSTONE PROJECT

Part-time students complete a capstone project that includes application of analytical methodologies, techniques, and tools learned throughout the program. Through the capstone project, students gain experience with the entire data analytics cycle—from business problem assessment to data engineering, and from data analysis to presentation of results and recommendations.

The experiential learning aspect of the MSBA program gives students a very good idea of what a real data analytics project looks like, including how to apply different data analytics techniques in a real business setting, how to cooperate with colleagues on data analytics projects, and how to convey key data analytics insights to stakeholders. These are all really important parts of jobs in analytics."

—XIN (EMILY) RONG, 15 MSBA

Data Scientist at Amazon

CARLSON ANALYTICS LAB

Full-time students work on real data projects with a client company in the
 Carlson Analytics Lab. This highly relevant semester-long experience sets
 you up for success post-graduation—and sets you apart on the job market.

Working in small teams, students lead every aspect of the project from definition to delivery, with guidance from faculty and professional staff, for a valuable resume-worthy experience. Past clients include *Fortune* 500 companies from a variety of industries. National retailers, manufacturers, healthcare players, agribusinesses, and others have partnered with the lab.

MALL OF AMERICA

Students used Wi-Fi access point data to better understand visitor behavior and movement inside the enormous shopping and entertainment destination.



Unifying disparate data sources, students created a cohesive view of customer segments for the airline, informing its entire marketing operation.



In this "internet of things" project, students built a cloud-based prototype to monitor streaming data from machine sensors and predict equipment failures—expanding the firm's capabilities.









PREPARE FOR CAREERS AT STANDOUT COMPANIES

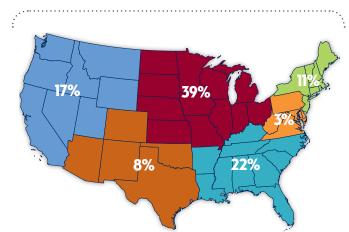


The Carlson School's extensive network spans local, national, and global business communities, connecting students to industry leaders and future colleagues.

Graduates of the MSBA program land exciting jobs with top companies across the country.

EMPLOYMENT BY REGION





PROGRAM ADVISORY BOARDS REPRESENT A SPECTRUM OF COMPANIES

Analytics professionals from leading organizations make up the advisory board for the MSBA program. Working in collaboration with faculty, advisory board members bring industry perspective to ongoing program strategy and development. MSBA students have opportunities to meet and engage with board members at events throughout the year.

AMAZON
AMERIPRISE
CARGILL
CARMICHAEL LYNCH
EXPERIAN
GENERAL MILLS
GOOGLE
MCKINSEY &

MCKINSEY DIGITAL

MEDTRONIC

MALL OF AMERICA

OPTUM

PWC

REGIS

SEARS

SLALOM CONSULTING

TARGET

THOMSON REUTERS

WALMART



JOIN A COMMUNITY OF LEADERS

Students at the University of Minnesota's Carlson School are part of a vibrant campus community that extends to a worldwide alumni network of 50,000+ strong in more than 100 countries.



John Tong SENIOR LEADERSHIP PROGRAM ASSOCIATE SEARS

Punit Lohani BUSINESS INSIGHT ANALYST EXPEDIA

Xiaochen Li MARKETING DATA ANALYST



COGNIZANT TECHNOLOGY **SOLUTIONS**

Akhil Mathew SENIOR ANALYST, **BUSINESS INTELLIGENCE** TARGET

Graduates of the MSBA program have joined some of the world's most exciting companies in roles that are as challenging as they are satisfying.

> STATISTICAL ANALYST WALMART

Pengfei Alex Song BUSINESS ANALYST AMAZON

Xin Miao FINANCIAL ANALYTICS SENIOR ANALYST AMERIPRISE FINANCIAL

Karthik Mahendran DATA ANALYST MCKINSEY & **COMPANY**



BUSINESS INTELLIGENCE GOOGLE Kshithi Venkatesh SENIOR DATA ANALYST PRICELINE



State for Business CNBC

Fortune 500 company headquarters

SEE YOURSELF HERE

thriving entrepreneurial scene.

most livable places in the nation.

of the largest private companies in the United States Forbes

Best City for Young Entrepreneurs Nerd Wallet

#4

Top City in the World for Attracting Recent Graduates LinkedIn



Fastest-growing state for tech jobs Dice.com (based on U.S. Bureau of Labor Statistics data)

The Carlson School sits near the heart of the thriving Minneapolis-St. Paul metro area. Home to Target, 3M, Medtronic, Best Buy,

Professional sports teams, world-class arts and cultural attractions,

and abundant parks add to the region's reputation as one of the

General Mills, and UnitedHealth Group, the area also boasts a

FULL-TIME MSBA PROGRAM

ACCELERATE YOUR ANALYTICS CAREER

Graduate in one year with deep knowledge and in-demand analytics expertise. **Full-time** students begin the program in June, complete three intensive semesters, and graduate the following May.



1 YEAR

begin in June, graduate next May



DAYTIME CLASSES

full-time, cohortbased study



STEM

designated by Homeland Security



45 CREDIT

rigorous academic study

SUMMER SEMESTER

BUSINESS AND MANAGEMENT FUNDAMENTALS

Analytics for Competitive Advantage

Introduction to Statistics for Data Scientists

Programming and Application Development

Financial Accounting

Marketing Management

FALL SEMESTER

TECHNICAL FUNDAMENTALS

Data Management, Databases, and Data Warehousing

Big Data Analytics

Building and Managing Teams

Exploratory Data Analytics and Visualization

Predictive Analytics

SPRING SEMESTER

ADVANCED ANALYTICS AND EXPERIENTIAL LEARNING

Advanced Issues in Business Analytics

Data-Driven
Experimentation and

Experimentation and Measurement

Modeling and Heuristics for Decision Making and Support

Project Management of Analytics Projects

Experiential Learning Project

PART-TIME MSBA PROGRAM

SYNCHRONIZE YOUR SUCCESS

Earn a degree in data analytics while you work. **Part-time** students attend classes in the evening, which provides flexibility for working professionals.



2 YEARS

begin in September, study while you work



FLEXIBLI

evening, online, and condensed format classes



2-3 CLASSES

(6-9 credits) per semester



45 CPEDITS

rigorous academic study

BUSINESS AND MANAGEMENT FUNDAMENTALS

Analytics for Competitive Advantage

Introduction to Statistics for Data Scientists

Nine Credits Business Electives:*

Business Ethics

Financial Accounting

Financial Management

Management and Organizational Behavior

Managerial Accounting

Managerial Economics

Marketing Management
Operations Management

Strategic Management

*Additional elective options are available

TECHNICAL FUNDAMENTALS

Math Foundations for Business Analytics

Programming and
Application Development

Data Management, Databases, and Data Warehousing

Big Data Analytics

ADVANCED ANALYTICS AND EXPERIENTIAL LEARNING

Exploratory Data Analytics and Visualization

Predictive Analytics

Advanced Issues in Business Analytics

Data-Driven Experimentation and Measurement

Modeling and Heuristics for Decision Making and Support

Capstone Project in Analytics

ADMISSIONS

Qualified applicants should demonstrate a capacity for intense academic study, a propensity for mathematics and programming, and a basic understanding of business fundamentals. Ideal candidates should meet these criteria (see website for details):

- Undergraduate degree in economics, mathematics, engineering, business, computer science, statistics, or related field is preferred, but not required
- ✓ Demonstrated proficiency in at least one of the following computer programming languages is required: Python, R, C, C++, C#, VB, Java, Pascal, and Fortran. Academic transcripts, certificates from online courses, or work experience may be cited to meet this requirement. See website for details.
- ✓ At least one semester college level calculus course with a grade "C" or better required
- Work experience is not required, but strongly preferred

NOTE: International students who require an F- $\scriptstyle I$ visa are not eligible for the part-time program.



APPLICATION DEADLINES

FULL-TIME MSBA

The full-time program begins only in June.

Round 1 November 1
Round 2 January 1
Round 3 February 1

PART-TIME MSBA

The part-time program begins only in fall semester.

Round 1 December 1
Round 2 February 1
Round 3 April 1
Round 4 June 1



APPLICATION CHECKLIST

- Official GMAT or GRE score*
- Official academic transcripts
- Current resume
- Personal statement
- Three letters of recommendation
- English Language Test Scores (if applicable)
- Online application and processing fee
- Interview (only applicants who present strong credentials will be invited to interview with a member of the Admissions Committee)
- * PART-TIME MSBA ONLY: In certain circumstances, a waiver may be applied to fulfill this requirement



Connect with Us

Discover how the Carlson School's Master of Science in Business Analytics program can help you achieve your learning and career goals. Contact us to ask questions, attend a recruiting event, or schedule an appointment with an admissions counselor.

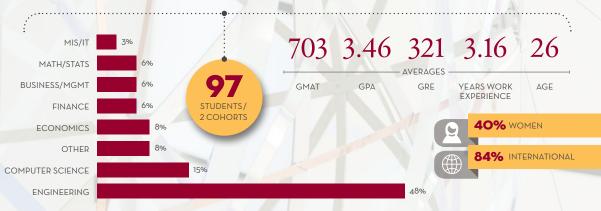
Master of Science in Business Analytics Carlson School of Management 321 Nineteenth Avenue South, Suite 1-110 Minneapolis, MN 55455

Full-Time MSBA and general inquiries: msba@umn.edu

Part-Time MSBA: ptmsba@umn.edu

Phone: 612-625-5555 carlsonschool.umn.edu/analytics

FULL-TIME MSBA CLASS OF 2018 PROFILE



PART-TIME MSBA CLASS OF 2017 PROFILE

GMAT GPA YEARS WORK STREET ALREADY HAS GRADUATE DEGREE





Carlson MBA and MS Programs Carlson School of Management University of Minnesota

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carlsonschool.umn.edu/analytics

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