



CARLSON SCHOOL
OF MANAGEMENT

UNIVERSITY OF MINNESOTA

Preparing Students to Succeed in a
Data-driven World

Soumya Sen

May 28, 2021. IT Teaching Workshop.

MS in Business Analytics (MSBA)



One Year

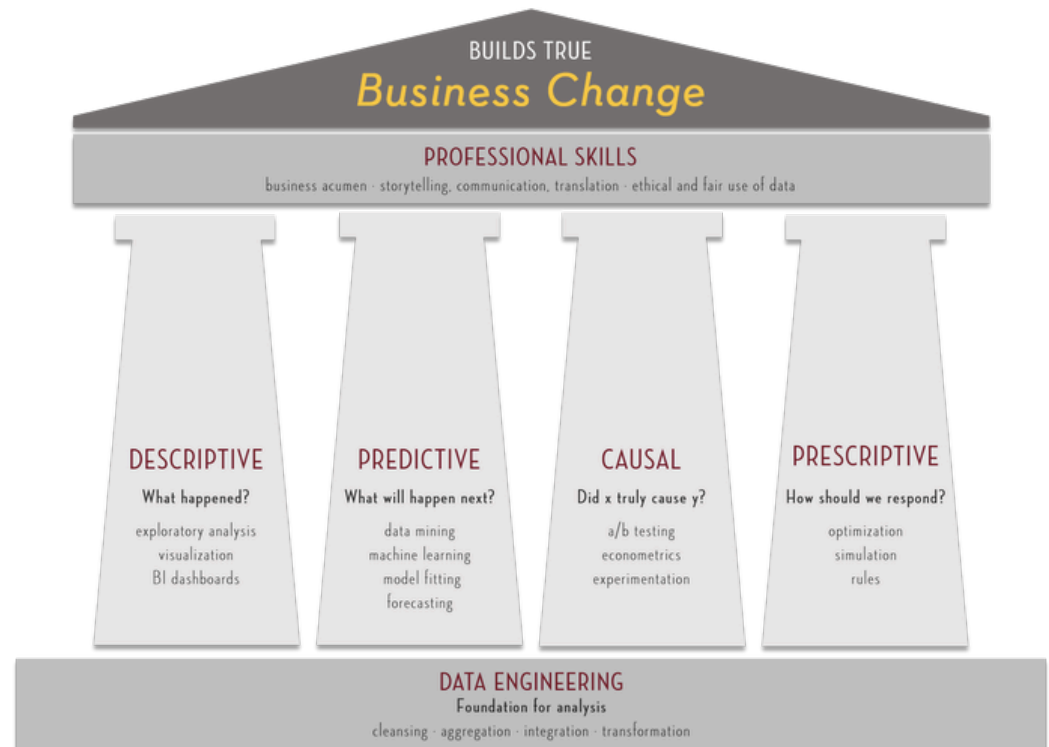
Full Time. Cohort-based.
45 credits – 15 credits per term.
STEM-designated.

Real-world Experience Built In

Experiential learning is a hallmark of the Carlson School. Students in the MSBA program put what they learn to work for real clients like

Mall of America and gain valuable resume experience along the way.

EXPERIENTIAL LEARNING IN ANALYTICS



MSBA Curriculum



Business & Technical Fundamentals

	credits
Business Essentials	3
Statistics for Data Scientists	3
Introduction to Business Analytics in R	3
Programming for Data Science	3
Data Management, Databases, & Data Warehousing	3

Core Analytics Courses

	credits
Exploratory Data Analytics	3
Predictive Analytics	3
Big Data Analytics	3
Building & Managing Teams	1.5
Ethics & Data Privacy	1
Casual Inference via Econometrics & Experimentation	3

Advanced Analytics & Experiential Learning

	credits
Optimization & Simulation for Decision Making Support	3
Advanced Issues in Business Analytics	3
Agile Management of Analytics Projects	1.5
Elective	2
Business Analytics Experiential Learning Project	6

LIVE CASE

4-week competition sponsored by a client partner

TREND MARKETPLACE



Semester 1

LIVE CASE

TREND MARKETPLACE
tradeshow-style event with industry guests



Semester 2

CARLSON ANALYTICS LAB Experiential Learning Projects

paying clients, 14 weeks, end-to-end project lifecycle



Semester 3

Carlson MSBA Students



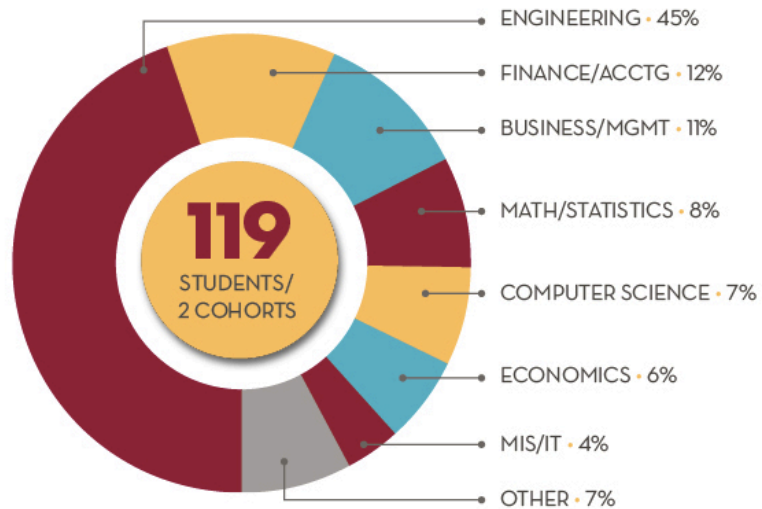
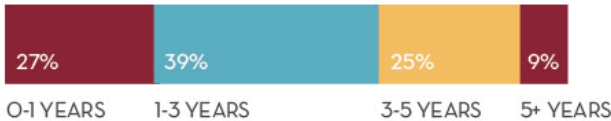
FULL-TIME MSBA CLASS OF 2020 PROFILE (119 students)

24 3.54 703 320

AVERAGES

AGE GPA GMAT GRE

AVERAGE WORK EXPERIENCE



WOMEN
40%



INTERNATIONAL
87%

Carlson MSBA Placements



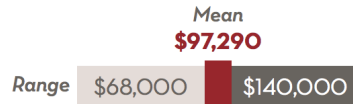
2019



of 2019 graduates **received** employment offers within six months after graduation

95% with U.S. work authorization
99% without U.S. work authorization

Base Salary



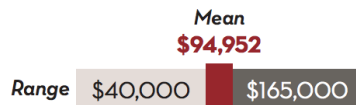
2020



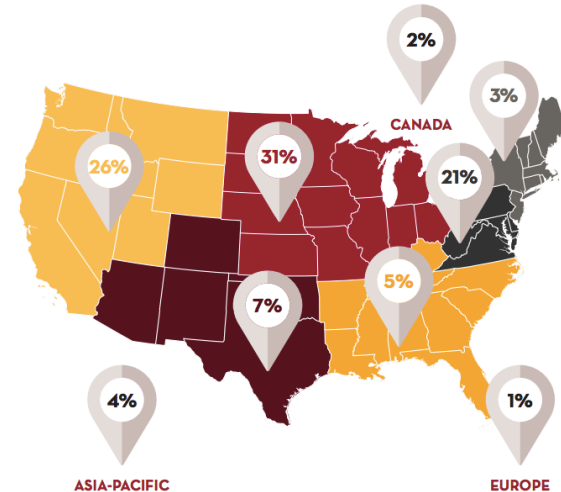
of 2020 graduates **received** employment offers within six months after graduation

89% with U.S. work authorization
94% without U.S. work authorization

Base Salary



WHERE STUDENTS ACCEPTED JOBS



MS in Applied Business Analytics (MABA)



Program

*Part Time HyFlex
2 Years*

*32 credits
2 courses/term*

Capstone project

Students

*15 – 20 students
Professionals*

*8.4 years avg. exp.
20 – 40% female*

Analytics Certificate

*NEW
12 credits*

*Subset of MABA courses
Extensible to MABA degree*

Analytics in Carlson MBA Program



Core

MBA 6240. Competing in a Data-Driven Age (2 credits)

Students learn general state-of-the-art analytics skills in the context of new platform based business models, digital search, big-data, social networks, social media and open innovation that pervade competition in the digital age.

Elective

IDSC 6444. Business Analytics for Managers I (2 credits)

Introduction to basic techniques in visualization, association rules, clustering, classification, regression, and elementary natural language processing.

Elective

IDSC 6446. Business Analytics for Managers II (2 credits)

Advanced techniques in data and text mining text, temporal data analytics, and advanced data visualization with real world data from different business contexts.

Analytics in Carlson Core UG Program



BUSINESS AS A FORCE FOR GOOD Undergraduate Curriculum



PEOPLE & PLANET

Courses That Prepare Students to
Lead with Purpose

Career skills,
Leadership, Ethics,
Sustainability courses



INTERNATIONAL EXPERIENCE

Developing culturally aware leaders
through an immersive global experience



FOUNDATIONS & IMPACT

Courses That Equip Students with
Business Fundamentals for Lasting Impact

Managerial economics &
core area courses



IMPACT CORE (I-CORE)

Building core business knowledge in a
yearlong community for lasting impact



DATA & DECISIONS

Courses That Build Skills for
Solving Complex Problems

Business Statistics in R (4 cr)

Modeling Business Decisions
in Excel (2 cr)

Data-driven Business Decisions (3 cr)

Business Analytics (3 cr)



INDUSTRY LAB (I-LAB)

Students solving real problems for nonprofits,
social enterprises & corporations

Analytics Specialization for UMN-Coursera



Browse > Data Science > Data Analysis

Offered By



UNIVERSITY OF MINNESOTA

Analytics for Decision Making Specialization

Boost your career through business analytics. Learn the basics of predictive and prescriptive analytics to further your career options in the area of business analytics.

☆☆☆☆☆ 5.0 6 ratings

Instructors



De Liu

Professor
Information & Decision Sciences

👤 401 Learners
📖 1 Course



Soumya Sen

Associate Professor
Carlson School of Management, Information and Decision Sciences

👤 11,337 Learners
📖 3 Courses



Alok Gupta

Associate Dean of Faculty & Research
Information & Decision Sciences

👤 200 Learners
📖 1 Course

