

# MASTER OF BUSINESS ADMINISTRATION: BUSINESS ANALYTICS

Data and analytics are transforming management and driving business success. Companies of all sizes and in industries across the spectrum are hiring business analytics professionals who can use data science to solve problems, implement change, and create new business opportunities in competitive global markets.

The Master of Business Administration (M.B.A.) Business Analytics program at Illinois Tech's Stuart School of Business **prepares you for key, high-impact roles managing business analytics.**

- Build your **business expertise** in management, innovation, strategic decision-making, operations and finance, and leadership.
- Learn how to **leverage insights from data analytics and predictive modeling** to optimize operational efficiency, develop and grow new products and markets, and increase profits.

Stuart School of Business is a global leader in bridging technology and business, offering distinctive education that provides students with the knowledge and skillsets to become outstanding professionals in economics, finance, analytics, marketing, business, public administration, operations, and management.

Business at Illinois Tech has a prestigious history that dates back to the late 1890s, with some of the nation's first courses in "Home Economics" and "Household Management" ("Family and Consumer Science") being offered by the Lewis Institute, Stuart's original home, and the Institute's subsequent formation of the university's Department of Business and Economics in 1926. Combined with the merger of the Lewis Institute with the Armour Institute, and the earlier pioneering works of Philip D. Armour, a merchant financier, Julia A. Beveridge, a librarian turned public administrator, and Frank W. Gunsaulus, an entrepreneurial preacher in the 1880s, the Department Business and Economics ultimately grew into a separate school at Illinois Institute of Technology – the Stuart School of Business, in 1969, with a gift from Lewis Institute alum and renowned financier Harold Leonard Stuart. Harold L. Stuart himself was a national leader in the field of investment banking in

the first half of the 20th century, and his Chicago investment bank played a pivotal role in establishing the city as a global financial hub.

Over a period of more than 125 years, harnessing curricular innovations by Julia A. Beveridge and George N. Carman, and incredible scholarly works by trailblazing Illinois Tech scholars Herb A. Simon (author of Administrative Behavior, later awarded the Nobel Prize in Economics), Karl Menger (developer of the St. Petersburg paradox in economics) and Abe Sklar (developer of the Copula in financial modeling), the Stuart School of Business has refined education in the disciplines of economics, finance, analytics, business and public administration, marketing, and management.

A long-standing leader in curricular innovation, in 1990, building on the foundational works of numerous Illinois Tech scholars, and Harold L. Stuart's own contributions to finance and the broader business community, the Stuart School of Business established quantitative finance as an academic discipline, with a world's first postgraduate Master's program in Financial Markets and Trading – a program that highlighted a new model for embedding into a postgraduate academic program the emphases on career readiness and connectedness with the business community, and transformed business school education.

Today, the Stuart School of Business continues to be a frontier innovator in accredited education, offering academic programs and co-curricular opportunities that place students on the path to self-actualization and career success. Leadership, entrepreneurship, experiential learning, positive societal impact, and connectedness to the business community, combined with a human-centered approach to student development, and an unyielding focus on student success, continue to be core pillars at Stuart. Stuart is accredited by the Association to Advance Collegiate Schools of Business (AACSB) – an accreditation achieved by fewer than 6% of business schools worldwide.

The MBA (Business Analytics) requires 36 credit hours (12 core courses) of graduate work.

## Curriculum

Code	Title	Credit Hours
<b>CORE COURSES</b>		<b>(36)</b>
BUS 510	Strategic Management	3
MBA 501	Financial Statement Applications	3
MBA 504	Analytics for Decision Making	3
MBA 505	Microeconomics and Game Theory	3
MBA 506	Leadership and Organization Design	3
MBA 509	Financial Management	3
MBA 511	Marketing Strategy	3
MBA 513	Operations and Technology Management	3
MAX 507	Visual Analytics - Data Analytics & Visualization	3
MAX 506	Database Design and SQL	3

2 Master of Business Administration: Business Analytics

MAX 522	Predictive Analytics	3
MAX 526	Quantitative Marketing Models	3

**Minimum degree credits required: 36**