MASTER OF SCIENCE IN BUSINESS ANALYTICS

Professionals with big data skills are in high demand. Companies need leaders who can turn data into insights and dollars. To match that demand, Suffolk University's Information Systems and Operation Management Department is launching a new Master of Science in Business Analytics (MSBA) program this fall.

Suffolk's comprehensive MSBA program uniquely balances business analytics and data management. You will learn how data is stored and managed, how data preparation is vital to implementing business analytics, and how to make high-level, data-driven decisions across a wide range of industries.

You will also learn to:

• Create value for businesses by studying data using statistical and operations analyses
• Form predictive and prescriptive models, and communicate their results to stakeholders
• Create business analytics, use cases, execute analyses, and manage the business analytic lifecycle
• Apply analytical functions to the fields of marketing, operations, accounting, finance, and innovation
• Bridge the communication gap between data scientists and business practitioners
• Develop executive reports and make presentations

The Data Skills Employers Demand

There's never been a better time to study business analytics. Business analytics careers are booming across the fields of information technology, financial services, healthcare, and biotech. In fact, the US Bureau of Labor Statistics projects faster-than-average growth in jobs for management, market research, operations research, and financial analysts.

This program will give you the skills you need to pursue a career in business analytics. If you're already working as an engineer, mathematician, physicist, computer programmer, or other high-tech professional, you can change or advance your career with this degree.

STEM Classification

Given its Science, Technology, Engineering, and Mathematics (STEM) designation, this graduate program allows international students to possibly extend their Optional Practical Training period after graduation.

Program Length

11 courses
10-16 months of full-time study
20-30 months of part-time study

Curriculum

The MSBA program features one required course, six Business Analytics core courses, and three electives.

Required and Business Analytics Core Courses (22 credits)

SBS 700 You as a Leader: Effective Career Planning (1 credit)
SBS 604 Data Analytics
ISOM 801 Solving Business Problems Using Advanced Excel
ISOM 821 Data Management and Modeling
ISOM 825 Enterprise Data Management
ISOM 827 Data Warehouse and Business Intelligence
ISOM 835 Predictive Analytics
ISOM 837 Data Mining and Business Insights

Tracks and Approved Electives (9 credits)

Three elective courses must be completed from the approved list below. You can specialize your degree further by pursuing one of these tracks:

Finance
MBA 650 Value-Based Financial Management
Two of the following electives:
    FIN 814 Options and Futures
    FIN 816 Risk Management in Banking and Finance
    FIN 818 Financial Econometrics
    FIN 900 Risk Assessment and Simulation

Accounting
MBA 640 Corporate Financial Reporting and Control
ACCT 805 Auditing and Assurance Services
ACCT 806 Fraud Examination

Healthcare Management
HLTH 701 Introduction to the US Healthcare Systems
HLTH 828 Population Health & **HLTH 850** Health Information Systems
One of the following electives:
    HLTH 702 Health Economics
    HLTH 830 Healthcare Operations Management
    HLTH 845 Big Data Analytics for Health and Healthcare

Other Electives
ISOM 840 Security and Privacy
ISOM 845 Business Intelligence and Data Analytics
ISOM 851 Supply Chain Management
ISOM 861 Project Management

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