

# Quantitative Finance and Business Administration, MSFMBA

Northeastern University's D'Amore-McKim School of Business positions students to become fintech leaders ready for the rapidly changing financial services industry. The Full-Time MS in Finance/MBA ([https://damore-mckim.northeastern.edu/programs/full-time-ms-finance-mba/?utm\\_source=internal-referral&utm\\_medium=nu-catalog&utm\\_campaign=ftmsfmba](https://damore-mckim.northeastern.edu/programs/full-time-ms-finance-mba/?utm_source=internal-referral&utm_medium=nu-catalog&utm_campaign=ftmsfmba)) combined degree program integrates business knowledge with advanced mathematical and technical skills.

## Integrating Classroom and Professional Experiences

Learning by doing is a hallmark of a Northeastern MBA. Students apply their knowledge to actual business challenges through experience-fueled electives and class projects. Students will gain invaluable experience at the intersection of business and finance through a corporate residency, translating ideas into action for three, six, or up to 12 months. Far removed from the typical internship, students work full-time at a leading firm or startup in their field and have significant responsibilities as they work to deliver on organizational goals.

## Cultivate Advanced Finance and Fintech Skills

Students pursue a major in quantitative finance that emphasizes the intersection of technology and business analytics with finance. Coursework integrates economics, mathematics, and computer science with financial theory and application. Students have an opportunity to develop mathematically demanding quantitative skills and fintech expertise.

Students can gain valuable experience performing equity research and portfolio management in a student-managed mutual fund, The 360 Huntington Fund. By participating in the Fund, students may earn 1 semester hour per semester with the option to fulfill a 3-semester-hour elective course requirement by participating for three terms.

## Select a Finance Concentration

Students specialize their degree by selecting a corporate finance or investments concentration. In the corporate finance concentration, students master a range of financial, analytical, and communication skills for increasing profitability and shareholder value. In the investments concentration, students become knowledgeable managers of assets for individuals or institutions, building their expertise in capital allocation, valuation, or risk management.

## Program Requirements

- Concentrations and course offerings may vary by campus and/or by program modality. Please consult with your advisor or admissions coach for the course availability each term at your campus or within your program modality.
- Certain options within the program may be *required* at certain campuses or for certain program modalities. Please consult with your advisor or admissions coach for requirements at your campus or for your program modality.

## Business Administration Core Requirements

Code	Title	Hours
<b>Marketing</b>		
MKTG 6318	Customer Value and the Enterprise	2
<b>Strategic Decision Making</b>		
ACCT 6318	Analyzing Accounting Data for Strategic Decision Making	2
STRT 6318	Strategic Planning for the Future	2
<b>Management</b>		
FINA 6318	Financial Management	2
HRMG 6318	Managing the Organization	2
SCHM 6318	Managing Operations and the Supply Chain	2
<b>Innovation and Social Impact</b>		
BUSN 6363	Social Impact of Business	2
INNO 6318	Innovation Driven Strategy	2
<b>Career Management</b>		
BUSN 6200	Career Management	0
BUSN 6950	MBA Skills Workshop	0
<b>Corporate Residency</b>		
BUSN 6954	Co-op Work Experience - Half-Time	0
BUSN 6964	Co-op Work Experience	0

BUSN 6970	Professional Projects	0
Three-month, six-month, or two six-month corporate residency placement options		

### Quantitative Finance Major Requirements

Code	Title	Hours
FINA 6203	Investment Analysis	3
FINA 6332	Fundamentals of Financial Math and Financial Markets	3
FINA 6333	Data Analytics in Finance	3
FINA 6334	Empirical Methods in Finance	3
FINA 6335	Derivatives and Risk Analytics	3
In consultation with advisor, complete 3 graduate-level semester hours in the FINA department for which prerequisites have been met.		3

### Concentration Options

Complete one of the following concentrations:

- Corporate Finance (p. 2)
- Investments (p. 2)

#### CONCENTRATION IN CORPORATE FINANCE

Code	Title	Hours
<b>Required</b>		
FINA 6320	Advanced Financial Management	3
In consultation with advisor, complete 3 graduate-level semester hours from the following for which prerequisites have been met:		3
FINA 6203	Investment Analysis	
FINA 6216	Valuation and Value Creation	
FINA 6260	Entrepreneurial Finance and Venture Capital	

#### Electives

In consultation with advisor, complete 6 graduate-level semester hours from the following for which prerequisites have been met:		6
FINA 6203	Investment Analysis	
FINA 6204	International Financial Management	
FINA 6205	Financial Strategy	
FINA 6207	Financial Modeling	
FINA 6211	Financial Risk Management	
FINA 6213	Investment Banking	
FINA 6214	Mergers and Acquisitions	
FINA 6215	Business Turnarounds	
FINA 6216	Valuation and Value Creation	
FINA 6217	Real Estate Finance and Investment	
FINA 6260	Entrepreneurial Finance and Venture Capital	
MECN 6200	Global Competition and Market Dominance	

#### CONCENTRATION IN INVESTMENTS

Code	Title	Hours
<b>Required</b>		
FINA 6203	Investment Analysis	3
FINA 6320	Advanced Financial Management	3
<b>Electives</b>		
In consultation with advisor, complete 6 graduate-level semester hours from the following for which prerequisites have been met:		6
FINA 6204	International Financial Management	
FINA 6207	Financial Modeling	
FINA 6211	Financial Risk Management	
FINA 6212	Fixed-Income Securities and Risk	
FINA 6213	Investment Banking	

FINA 6214	Mergers and Acquisitions
FINA 6216	Valuation and Value Creation
FINA 6217	Real Estate Finance and Investment
FINA 6219	Portfolio Management
FINA 6260	Entrepreneurial Finance and Venture Capital
FINA 6360	Fund Management for Analysts
FINA 6361	Fund Management for Managers
MECN 6200	Global Competition and Market Dominance

## Electives

Code	Title	Hours
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### Experiential Requirement

In consultation with advisor, complete 3 semester hours from the following: 3

BUSN 6351	Experiential Education
BUSN 6945	Washington Campus Seminar
ENTR 5000	New Venture Development
FINA 6360	Fund Management for Analysts
FINA 6361	Fund Management for Managers
INTB 6230	Global Field Study
INTB 6238	Global Project
MKTG 6606	Digital, Analytics, Technology, and Automation Advanced Research Practicum

### Open Electives

In consultation with advisor, complete 12 graduate-level semester hours from the following for which prerequisites have been met: 12

ACCT, BUSN, ENTR, FINA, HRMG, INNO, INTB, MECN, MGMT, MKTG, SCHM, and STRT

### Interdisciplinary Requirements

In consultation with advisor, complete 6 graduate-level semester hours from the following for which prerequisites have been met, offered in partnership with other Northeastern University colleges: 6

AACE 6000	Arts and Culture Organizational Leadership
ARTG 5150	Information Visualization Principles and Practices
ARTG 5151	Information Design Critique Seminar
ARTG 5330	Visualization Technologies 1: Fundamentals
ARTG 5600	Experience Design Studio 1: Principles
ARTG 5610	Design Systems
ARTG 5620	Notational Systems for Experience
ARTG 5640	Prototyping for Experience Design
ARTG 6110	Information Design Theory and Critical Thinking
ARTG 6310	Design for Behavior and Experience
ARTG 6330	Information Design Mapping Strategies
BINF 6200	Bioinformatics Programming
BINF 6308	Bioinformatics Computational Methods 1
BINF 6309	Bioinformatics Computational Methods 2
BIOT 5120	Foundations in Biotechnology
BIOT 5219	The Biotechnology Enterprise
BIOT 5400	Scientific Information Management for Biotechnology Managers
BIOT 5631	Cell Culture Processes for Biopharmaceutical Production
BIOT 6214	Experimental Design and Biostatistics
CS 5100	Foundations of Artificial Intelligence
CS 5200	Database Management Systems
CY 5240	Cyberlaw: Privacy, Ethics, and Digital Rights
DS 5110	Introduction to Data Management and Processing
ECON 5140	Applied Econometrics
GE 5030	Iterative Product Prototyping for Engineers
GE 5100	Product Development for Engineers

GSND 5110	Game Design and Analysis
GSND 6320	Psychology of Play
GSND 6340	Biometrics for Design
GSND 6350	Data-Driven Player Modeling
HINF 5101	Introduction to Health Informatics and Health Information Systems
HINF 5105	The American Healthcare System
HINF 6202	Business of Healthcare Informatics
HINF 6205	Creation and Application of Medical Knowledge
IE 5617	Lean Concepts and Applications
IE 5640	Data Mining for Engineering Applications
IE 6200	Engineering Probability and Statistics
IE 6600	Computation and Visualization for Analytics
IE 7280	Statistical Methods in Engineering
IE 7285	Statistical Quality Control
IE 7374	Special Topics in Industrial Engineering
INSH 5301	Introduction to Computational Statistics
INSH 5302	Information Design and Visual Analytics
JRNL 5311	Design for Storytelling
JRNL 5400	Media and Advocacy in Theory and Practice
JRNL 6305	Topics
JRNL 6340	Fundamentals of Digital Journalism
JRNL 6341	Telling Your Story with Data
ME 5645	Environmental Issues in Manufacturing and Product Use
PHIL 5001	Global Justice
PHIL 5005	Information Ethics
PHIL 5010	AI Ethics
PHTH 5232	Evaluating Healthcare Quality
PHTH 5234	Economic Perspectives on Health Policy

### Program Credit/GPA Requirements

67 total semester hours required

Minimum 3.000 GPA required