

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=neu-course-catalog&utm_medium=referral&utm_campaign=ftmsfmba-mofu) 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 3, 6, 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 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 concentration in either corporate finance or investments. 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

Business Administration Core Requirements

Code	Title	Hours
Marketing		
MKTG 6318	Customer Value and the Enterprise	2
Strategic Decision Making		
ACCT 6318	Analyzing Accounting Data for Strategic Decision Making	2
STRT 6318	Strategic Planning for the Future	2
Management		
FINA 6318	Financial Management	2
HRMG 6318	Managing the Organization	2
SCHM 6318	Managing Operations and the Supply Chain	2
Innovation and Social Impact		
BUSN 6363	Social Impact of Business	2
ENTR 6318	Innovating and Creating Futures	2
Career Management		
BUSN 6200	Career Management	0
BUSN 6950	MBA Skills Workshop	0
Corporate Residency		
BUSN 6964	Co-op Work Experience	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 6331	Corporate Finance	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

Concentration Options

Complete one of the following concentrations:

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

CONCENTRATION IN CORPORATE FINANCE

Code	Title	Hours
Required		
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
Required		
FINA 6203	Investment Analysis	3
FINA 6320	Advanced Financial Management	3
Electives		
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
Experiential Requirement		
In consultation with advisor, complete 3 semester hours from the following:		3
BUSN 6351	Experiential Education	
BUSN 6945	Washington Campus Seminar	
FINA 6360	Fund Management for Analysts	
FINA 6361	Fund Management for Managers	
INTB 6230	International Field Study	
INTB 6238	Global Project	
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, INTB, MECN, MGMT, MKTG, SCHM, STRT, and TECE		
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 5640	Data Mining for Engineering Applications	
IE 6600	Computation and Visualization for Analytics	
IE 7374	Special Topics in Industrial Engineering	

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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
INSH 5301	Introduction to Computational Statistics
INSH 5302	Information Design and Visual Analytics
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