

Mathematics and Business Administration, BS (Boston)

In the BS Mathematics and Business Administration program, business and mathematics courses lay the groundwork for strong basic training in finance and other concentrations. Finance concentrators are strongly recommended to take Financial Risk Management (FINA 4512)

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

Universitywide Requirements

All undergraduate students are required to complete the Universitywide Requirements (<https://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements/>).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (<https://catalog.northeastern.edu/undergraduate/university-academics/nupath/>).

Mathematics Requirements

Code	Title	Hours
Required Courses		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 3081	Probability and Statistics	4
Problem Solving		
Complete one of the following courses:		4
MATH 1365	Introduction to Mathematical Reasoning	
MATH 1465	Intensive Mathematical Reasoning	
Calculus and Linear Algebra (Required) and Differential Equations (Recommended)		
Complete either Option 1 or Option 2 below:		8
<i>Option 1 (Recommended)</i>		
MATH 2321	Calculus 3 for Science and Engineering	
MATH 2341	Differential Equations and Linear Algebra for Engineering	
<i>Option 2</i>		
MATH 2321	Calculus 3 for Science and Engineering	
MATH 2331	Linear Algebra	
Mathematics Electives		
Complete three courses in the range MATH 3001 to MATH 5999. The following courses are recommended:		12
MATH 4681	Probability and Risks	
MATH 4682	Theory of Interest and Basics of Life Insurance 1	
MATH 4581	Statistics and Stochastic Processes	

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Profit Analysis for Managers and Advisors	4
Finance		
FINA 2201	Financial Management	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4
or ORGB 3203	Behavioral Aspects of Digital Transformation	
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Strategy in Action

STRT 4501	Strategy in Action	4
-----------	--------------------	---

Integrative Course

Code	Title	Hours
MATH 4581	Statistics and Stochastic Processes	4

Business Concentration

Complete one of the following business concentrations. One concentration is required. A second concentration is optional.

- Accounting (<https://catalog.northeastern.edu/undergraduate/business/concentrations/accounting/>)
- Accounting and Advisory Services (<https://catalog.northeastern.edu/undergraduate/business/concentrations/accounting-advisory-services/>)
- Brand Management (<https://catalog.northeastern.edu/undergraduate/business/concentrations/brand-management/>)
- Business Analytics (<https://catalog.northeastern.edu/undergraduate/business/concentrations/business-analytics/>)
- Corporate Innovation (<https://catalog.northeastern.edu/undergraduate/business/concentrations/corporate-innovation/>)
- Entrepreneurial Startups (<https://catalog.northeastern.edu/undergraduate/business/concentrations/entrepreneurial-startups/>)
- Finance (<https://catalog.northeastern.edu/undergraduate/business/concentrations/finance/>) (Finance concentrators are strongly recommended to take Financial Risk Management (FINA 4512))
- Fintech (<https://catalog.northeastern.edu/undergraduate/business/concentrations/fintech/>)
- Healthcare Management and Consulting (<https://catalog.northeastern.edu/undergraduate/business/concentrations/healthcare-management-consulting/>)
- International Business (<https://catalog.northeastern.edu/undergraduate/business/concentrations/international-business/>) (only available as a second concentration)
- Management (<https://catalog.northeastern.edu/undergraduate/business/concentrations/management/>)
- Management Information Systems (<https://catalog.northeastern.edu/undergraduate/business/concentrations/management-information-systems/>)
- Marketing (<https://catalog.northeastern.edu/undergraduate/business/concentrations/marketing/>)
- Marketing Analytics (<https://catalog.northeastern.edu/undergraduate/business/concentrations/marketing-analytics/>)
- Social Innovation and Entrepreneurship (<https://catalog.northeastern.edu/undergraduate/business/concentrations/social-innovation-entrepreneurship/>)
- Supply Chain Management (<https://catalog.northeastern.edu/undergraduate/business/concentrations/supply-chain-management/>)

Supplemental Courses

Code	Title	Hours
Introduction to College		
INSC 1000	Science at Northeastern	1
or BUSN 1102	Personal Skill Development for Business	
Co-op Preparation		
BUSN 1103	Professional Development for Business Co-op	1
or EESC 2000	Professional Development for Co-op	
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
Writing Requirement		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	4
or ENGW 3304	Advanced Writing in the Business Administration Professions	
or ENGW 3307	Advanced Writing in the Sciences	

Business Experiential Learning

Code	Title	Hours
Complete at least one of the following experiences:		
BUSN 4945	In-the-Field Experiential Professional Practicum	0-8
COOP 3945	Co-op Work Experience	
COOP 3946	Co-op Work Experience—Half Time	

COOP 3947	Co-op Work Experience Abroad--Half Time
COOP 3948	Co-op Work Experience Abroad
EEBA 2945	Internship Experience
EEBA 2948	Internship Experience Abroad

NUPath Requirements

The following NUPath Requirements are met by the major:

- Analyzing and Using Data (AD)
- Conducting Formal and Quantitative Reasoning (FQ)
- Demonstrating Thought and Action in a Capstone (CE)
- Employing Ethical Reasoning (ER)
- Engaging with the Natural and Designed World (ND)
- Interpreting Culture (IC)
- Understanding Societies and Institutions (SI)

Other NUPath requirements may be fulfilled by electives in the program.

Science GPA Requirement (Mathematics)

A minimum 2.000 GPA in the following course codes is required: MATH.

Business GPA Requirement

Minimum 2.000 GPA required in business courses

Program Requirement

128 total semester hours required

Plan of Study

Sample Plan of Study

FOUR YEARS, TWO CO-OPS

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111		4 MATH 1342		4 MKTG 2201		4 NU Path	4
ECON 1115		4 MATH 1365		4 Open Elective		4 Open Elective	4
MATH 1341		4 ECON 1116		4			
ACCT 1201		4 ACCT 2301		4			
BUSN 1102 or MATH 1000		1					
	17		16		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
FINA 2201		4 Co-op		0 Co-op		0 ORGB 3201 or 3203	4
INTB 1203		4				NU Path	4
MATH 3081		4					
MATH 2321		4					
BUSN 1103 or EESC 2000		1					
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Concentration Course 1		4 Co-op		0 Co-op		0 Concentration Course 2	4
MATH 2341 or 2331		4				Open Elective	4
Math Elective (3001-5999)		4					
ENGW 3304 or 3307		4					
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours
Concentration Course 3		4 NU Path	4

4 Mathematics and Business Administration, BS (Boston)

Math Elective (3001-5999)	4 Open Elective	4
MATH 4581	4 Concentration Course 4	4
STRT 4501	4 Math Elective (3001-5999)	4
	16	16

Total Hours: 130