The computer science and business combined major delivers a technical degree with a strong grounding in business. You'll complete most of the requirements of a business major, including macroeconomics and microeconomics, while also focusing on technical skills like program design, software development, computer organization, systems and networks, theories of computation, principles of languages, and advanced algorithms and data.

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.

University-Wide Requirements
All undergraduate students are required to complete the University-Wide Requirements (http://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements).

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

Computer Science Courses

Computer Science Overview
- CS 1200 Computer Science/Information Science Overview 1
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation

Computer Science Fundamental Courses
A grade of C– or higher is required in computer science fundamental courses:
- CS 1800 and CS 1802 Discrete Structures and Seminar for CS 1800
- or CS 1801 Recitation for CS 1800
- CS 2500 and CS 2501 Fundamentals of Computer Science 1 and Lab for CS 2500
- CS 2510 and CS 2511 Fundamentals of Computer Science 2 and Lab for CS 2510

Computer Science Required Courses
- CS 3200 Database Design
- CS 3500 Object-Oriented Design
- CS 4500 Software Development
- CS 4800 Algorithms and Data

Complete two of the following:
- CS 3650 Computer Systems
- CS 3700 Networks and Distributed Systems
- DS 4100 Data Collection, Integration, and Analysis
- DS 4200 Information Presentation and Visualization
- DS 4300 Large-Scale Information Storage and Retrieval

Computer Science Senior Seminar
THTR 1170 The Eloquent Presenter

Computer Science Elective Courses
With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as a computer science elective.

Complete one course in the following ranges:
- CS 2500 or higher, except CS 5010
- IS 2000 or higher, except IS 4900
- DS 2000 or higher, except DS 4900

Business Courses

Required Business Courses
- ACCT 1201 Financial Accounting and Reporting
- ACCT 2301 Managerial Accounting
- FINA 2201 Financial Management
- ORGB 3201 Organizational Behavior
- MKTG 2201 Introduction to Marketing
- MGSC 2301 Business Statistics

Choose one of the following:
- STRT 4501 Strategy in Action
- STRT 4514 Internal Case Competition Challenge
- STRT 4516 External Case Competition Challenge

Strategy in Action (STRT 4501), Internal Case Competition Challenge (STRT 4514), and External Case Competition Challenge (STRT 4516) all satisfy the capstone requirement.

Business Concentration
Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below (p. 2).

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Marketing
- Supply Chain Management

Integrative Course
Information Resource Management
- MISM 3305 Information Resource Management (integrative course)

Supporting Courses

Mathematics
- MATH 1341 Calculus 1 for Science and Engineering
- or MATH 1231 Calculus for Business and Economics

Economics
- ECON 1115 Principles of Macroeconomics
- ECON 1116 Principles of Microeconomics

Computing and Social Issues
Complete one of the following:
-
ANTH 3418 Wired/Unwired: Cybercultures and Technopolitics
IA 5240 Cyberlaw: Privacy, Ethics, and Digital Rights
INSH 2102 Wired/Unwired: Cybercultures and Technopolitics
PHIL 1145 Technology and Human Values
SOCL 1280 The 21st-Century Workplace
SOCL 3485 Environment, Technology, and Society
SOCL 4528 Computers and Society

Computer Science Writing Requirement

College Writing
ENGW 1111 First-Year Writing 4

Advanced Writing in the Disciplines
ENGW 3302 Advanced Writing in the Technical Professions 4
or ENGW 3315 Interdisciplinary Advanced Writing in the Disciplines

Required General Electives
Complete four general electives. 16

Business Cooperative Education Requirement
Complete one six-month co-op experience.

Computer Science GPA Requirement
Minimum 2.000 GPA required in all CS and IS courses

Business GPA Requirement
Minimum 2.000 GPA required in business courses

NPath Requirements Satisfied
• Engaging with the Natural and Designed World
• Conducting Formal and Quantitative Reasoning
• Analyzing and Using Data
• Understanding Societies and Institutions
• Writing in the First Year
• Advanced Writing in the Disciplines
• Writing-intensive in the Major
• Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement
133 total semester hours required

Concentrations

CONCENTRATION IN ACCOUNTING

<table>
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<tr>
<th>Code</th>
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<td>ACCT 3401</td>
<td>Financial Reporting and Analysis 1</td>
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<tr>
<td>ACCT 4501</td>
<td>Financial Reporting and Analysis 2</td>
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Electives
Complete two of the following: 8

ACCT 3403 Accounting Information Systems
ACCT 3416 Strategic Cost Analysis for Decision Making
ACCT 4412 Auditing and Other Assurance Services
ACCT 4414 Income Tax Determination and Planning

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

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<td>ENTR 3308</td>
<td>Business Economic History of South Africa</td>
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<tr>
<td>ENTR 3318</td>
<td>Business, Economics, and History of Hispaniola and Latin America</td>
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<td>ENTR 3328</td>
<td>Field Research in Sustainable Business</td>
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<td>ENTR 3338</td>
<td>Field Research in Sustainable Energy in Iceland</td>
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<tr>
<td>ENTR 3346</td>
<td>Family Business in Italy</td>
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<tr>
<td>ENTR 4510</td>
<td>Management Consulting Abroad</td>
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<tr>
<td>ENTR 4514</td>
<td>Development Practice and Global Citizenship in India</td>
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Introductory Course
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<td>ENTR 2301</td>
<td>Innovation!</td>
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<tr>
<td>or ENTR 2303</td>
<td>Entrepreneurial Marketing and Selling</td>
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Capstone Course
Complete one of the following: 4

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<tbody>
<tr>
<td>ENTR 4501</td>
<td>Business Planning for Technology Ventures</td>
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<td>ENTR 4503</td>
<td>Business Planning for Small and Medium Enterprises</td>
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<td>ENTR 4505</td>
<td>Entrepreneurial Growth Strategy for Technology Ventures</td>
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<tr>
<td>ENTR 4506</td>
<td>Advanced Studies in Social Enterprise</td>
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Electives
Note: Only one non-ENTR course may be used as an elective.
Complete two of the following: 8

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<thead>
<tr>
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<tbody>
<tr>
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<td>ENTR 2215</td>
<td>Understanding Family Enterprise</td>
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<tr>
<td>ENTR 2414</td>
<td>Social Responsibility of Business in an Age of Inequality</td>
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</tr>
<tr>
<td>ENTR 2301</td>
<td>Innovation! (if not used as introductory course)</td>
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<tr>
<td>ENTR 2303</td>
<td>Entrepreneurial Marketing and Selling (if not used for introductory course)</td>
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<tr>
<td>ENTR 3210</td>
<td>Social Impact Investing: Connecting Compassion and Capital</td>
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<tr>
<td>ENTR 3212</td>
<td>Innovation for Social Change</td>
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<td>ENTR 3217</td>
<td>Global Family Business Leadership</td>
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<td>Microfinance: Fostering Entrepreneurship in the Developing World</td>
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<td>ENTR 3220</td>
<td>International Entrepreneurship and Innovation Consulting</td>
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<tr>
<td>ENTR 3305</td>
<td>Entrepreneurial Strategy and Business Model Design</td>
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<tr>
<td>ENTR 3306</td>
<td>Global Entrepreneurship</td>
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</table>
ENTR 3316  Microfinance and Economic Development in Latin America
ENTR 3320  Base of Pyramid Innovation
ENTR 3326  Sustainability in the Latin American Business Environment
ENTR 3330  Lean Design and Development for Entrepreneurs
ENTR 3336  Resource Management and Renewable Energy in Iceland
ENTR 3348  Family Business: A Global Perspective
ENTR 3401  Management of Operations and Growth in Small- and Medium-Sized Enterprises
ENTR 3403  Managing Operations in a Technology-Based Startup Firm
ENTR 3410  Entrepreneurship and Intrapreneurship in Innovation-Driven Markets
ENTR 3520  Impact Investing and Social Finance
ENTR 4225  Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances
ENTR 4512  Social Entrepreneurship and Sustainable Development in India
FINA 4610  Entrepreneurial Finance, Innovation Valuation, and Private Equity

**CONCENTRATION IN FINANCE**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</table>
| Required Course
| FINA 3301  | Corporate Finance                                  | 4     |
| or FINA 3303 | Investments                                        |       |
| Electives
| Complete three of the following:                  |       |
| ENTR 3520  | Impact Investing and Social Finance                 |       |
| or FINA 2720 | Sustainability in the Business Environment         |       |
| FINA 3301  | Corporate Finance (if not selected as a required course) |   |
| FINA 3303  | Investments (if not selected as a required course) |   |
| FINA 4310  | Working Capital Management                          |       |
| FINA 4312  | Issues in Corporate Governance                      |       |
| FINA 4320  | International Financial Management                  |       |
| FINA 4410  | Valuation and Value Creation                        |       |
| FINA 4412  | Personal Financial Planning                         |       |
| FINA 4420  | Mergers and Acquisitions                            |       |
| FINA 4512  | Financial Risk Management                           |       |
| FINA 4514  | Investment Banking                                  |       |
| FINA 4516  | Real Estate Finance                                 |       |
| FINA 4518  | Risk Management and Insurance                       |       |
| FINA 4524  | Credit Analysis                                     |       |
| FINA 4526  | Core Topics in Alternative Investments              |       |
| FINA 4983  | Special Topics in Finance                           |       |
| FINA 4602  | Turnaround Management                               |       |
| FINA 4604  | Fixed-Income Securities                             |       |
| FINA 4608  | Advanced Financial Strategy                         |       |
| FINA 4610  | Entrepreneurial Finance, Innovation Valuation, and Private Equity | |

**CONCENTRATION IN MANAGEMENT**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</table>
| Required Course
| MGMT 4501  | Skills for Managerial Success                       | 4     |
| Electives
| Note: Only one non-MGMT course may be used as an elective. Complete three of the following: |
| MGMT 3302  | Negotiating in Business                             |       |
| MGMT 3330  | Developing Leaders for Global Sustainability        |       |
| MGMT 3340  | Managing Healthcare Organizations: Critical Challenges and New Approaches |   |
| MGMT 3370  | Leading and Managing Change                         |       |
| MGMT 3420  | Managing Human Capital                               |       |
| MGMT 3435  | Social Networks and Organizations                    |       |
| MGMT 3510  | Managing Global Teams Virtually and Locally          |       |
| MGMT 3530  | Project Management                                   |       |
| MGMT 4310  | The Management Practices of Great Organizations      |       |
| MGMT 4410  | Human Resources and Workforce Analytics              |       |
| MGMT 4603  | Leadership Seminar                                   |       |
| ENTR 2215  | Understanding Family Enterprise                      |       |
| ENTR 2414  | Social Responsibility of Business in an Age of Inequality |   |
| ENTR 4225  | Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances | |

**CONCENTRATION IN MARKETING**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
</table>
| Required Courses
| MKTG 3401  | Marketing Research                                  | 4     |
| MKTG 3301  | Marketing Management                                | 4     |
| MKTG 4506  | Consumer Behavior                                   |       |
| Electives
| Complete two of the following:                     |       |
| MKTG 2301  | Marketing and Society                               |       |
| MKTG 3301  | Marketing Management (if not selected as a required course) |   |
| MKTG 3501  | Marketing Analytics                                 |       |
| MKTG 4310  | Retailing                                           |       |
| MKTG 4420  | Sales Management                                    |       |
| MKTG 4502  | Marketing in the Service Sector                      |       |
| MKTG 4504  | Advertising and Brand Promotion                      |       |
| MKTG 4506  | Consumer Behavior (if not selected as a required course) |   |
| MKTG 4508  | Digital Marketing                                   |       |
| MKTG 4510  | New Product Development                             |       |
| MKTG 4512  | International Marketing                             |       |
## Concentration in Supply Chain Management

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<tr>
<td>SCHM 3305</td>
<td>Sourcing and Procurement</td>
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<tr>
<td>SCHM 3310</td>
<td>Logistics and Transportation Management</td>
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### Elective

Complete one of the following: 4

- SCHM 3308 Supply Chain Analytics
- SCHM 3320 Demand Planning and Forecasting
- SCHM 3330 Sustainability and Supply Chain Management
- SCHM 4401 Advanced Problems in Supply Chain Management

### Plan of Study

#### Sample Patterns:

##### Four Years, Two Co-ops in Summer 2/Fall

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer 1</th>
<th>Hours</th>
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**Year 2**

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**Year 3**

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**Year 4**

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**Total Hours: 134**

### Five Years, Three Co-ops in Summer 2/Fall

**Year 1**

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**Year 2**

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**Year 3**

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<th>Hours</th>
<th>Summer 1</th>
<th>Hours</th>
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