The cybersecurity and business combined major delivers a technical and security-focused degree with a strong grounding in business. Students will complete most of the requirements of a business major, including macroeconomics and microeconomics, while also focusing on the conceptual and practical computer science skills that will enable them to contribute to ensuring the reliability and security of cyberspace.

**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/).

**Cybersecurity Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1200</td>
<td>First Year Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CS 1210</td>
<td>Professional Development for Khoury Co-op</td>
<td>1</td>
</tr>
</tbody>
</table>

**Computer Science Fundamental Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1800</td>
<td>Discrete Structures and Seminar for CS 1800</td>
<td>5</td>
</tr>
<tr>
<td>CS 2500</td>
<td>Fundamentals of Computer Science 1 and Lab for CS 2500</td>
<td>5</td>
</tr>
<tr>
<td>CS 2510</td>
<td>Fundamentals of Computer Science 2 and Lab for CS 2510</td>
<td>5</td>
</tr>
</tbody>
</table>

**Computer Science Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3000</td>
<td>Algorithms and Data</td>
<td>4</td>
</tr>
<tr>
<td>CS 3500</td>
<td>Object-Oriented Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 3650</td>
<td>Computer Systems</td>
<td>4</td>
</tr>
<tr>
<td>CS 3700</td>
<td>Networks and Distributed Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

**Cybersecurity Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY 2550</td>
<td>Foundations of Cybersecurity</td>
<td>4</td>
</tr>
<tr>
<td>CY 3740</td>
<td>Systems Security</td>
<td>4</td>
</tr>
<tr>
<td>CY 4170</td>
<td>The Law, Ethics, and Policy of Data and Digital Technologies</td>
<td>4</td>
</tr>
<tr>
<td>or CY 5240</td>
<td>Cyberlaw: Privacy, Ethics, and Digital Rights</td>
<td>4</td>
</tr>
<tr>
<td>CY 4740</td>
<td>Network Security</td>
<td>4</td>
</tr>
</tbody>
</table>

**Cybersecurity Electives**
If courses require prerequisites, those should be taken using general electives.

Complete one course from the following: 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 2551</td>
<td>Free Speech in Cyberspace</td>
</tr>
<tr>
<td>CRIM 2200</td>
<td>Criminology</td>
</tr>
</tbody>
</table>

**Business Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1201</td>
<td>Financial Accounting and Reporting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 2301</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>FINA 2201</td>
<td>Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>ORGB 3201</td>
<td>Organizational Behavior</td>
<td>4</td>
</tr>
</tbody>
</table>
Cybersecurity and Business Administration, BS

Marketing
MKTG 2201 Introduction to Marketing 4

Statistics
MGSC 2301 Business Statistics 4

Strategy
STRT 4501 Strategy in Action 4

Business Concentration
Complete a four-course business concentration from the following list.

- Accounting (http://catalog.northeastern.edu/undergraduate/business/concentrations/accounting/)
- Corporate Innovation and Venture (http://catalog.northeastern.edu/undergraduate/business/concentrations/corporate-innovation-venture/)
- Entrepreneurial Startups (http://catalog.northeastern.edu/undergraduate/business/concentrations/entrepreneurial-startups/)
- Entrepreneurship and Innovation (http://catalog.northeastern.edu/undergraduate/business/concentrations/entrepreneurship-innovation/)
- Family Business (http://catalog.northeastern.edu/undergraduate/business/concentrations/family-business/)
- Finance (http://catalog.northeastern.edu/undergraduate/business/concentrations/finance/)
- Fintech (http://catalog.northeastern.edu/undergraduate/business/concentrations/fintech/)
- International Business (http://catalog.northeastern.edu/undergraduate/business/concentrations/international-business/)
- Management (http://catalog.northeastern.edu/undergraduate/business/concentrations/management/)
- Marketing (http://catalog.northeastern.edu/undergraduate/business/concentrations/marketing/)
- Marketing Analytics (http://catalog.northeastern.edu/undergraduate/business/concentrations/marketing-analytics/)
- Social Innovation and Entrepreneurship (http://catalog.northeastern.edu/undergraduate/business/concentrations/social-innovation-entrepreneurship/)
- Supply Chain Management (http://catalog.northeastern.edu/undergraduate/business/concentrations/supply-chain-management/)

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

Integrative Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISM 2301</td>
<td>Management Information Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

Supporting Courses

Mathematics Courses
Complete one of the following: 4

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

Economics
Complete one of the following: 4

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

Writing Requirements

College Writing

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGW 1111</td>
<td>First-Year Writing</td>
<td>4</td>
</tr>
<tr>
<td>or ENGW 1102</td>
<td>First-Year Writing for Multilingual Writers</td>
<td></td>
</tr>
</tbody>
</table>

Advanced Writing in the Disciplines
Complete one of the following:

- ENGW 3302 Advanced Writing in the Technical Professions
- ENGW 3315 Interdisciplinary Advanced Writing in the Disciplines

Required General Electives
Complete 16 credits of general electives. 16

Khoury College GPA Requirement
Minimum 2.000 GPA required in all CS, CY, DS, and IS courses.

Business GPA Requirement
Minimum 2.000 GPA required in all business courses.

NUpath 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 semester hours required

Plan of Study
Sample Patterns:

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

Year 1

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer 1</th>
<th>Hours</th>
<th>Summer 2</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CS 1200</td>
<td>1</td>
<td>CS 2510</td>
<td>5</td>
<td>CS 3500</td>
<td>4</td>
<td>Vacation</td>
<td></td>
</tr>
</tbody>
</table>
CS 1800 and CS 1802 5  CY 2550 4 Elective 1 4
CS 2500 and CS 2501 5  MATH 1341 or 1231 4
ENGW 1111 4  ACCT 1201 4
ECON 1115 or 1116 4

Year 2
Fall  Hours  Spring  Hours  Summer 1  Hours  Summer 2  Hours
CS 3000 4  CS 3700 4 MKTG 2201 4 Co-op
CS 3650 4  CY 3740 4 Elective 3 4
ACCT 2301 4 Business concentration 1
MGSC 2301 4 Elective 2 4
CS 1210 4

16 17 8 0

Year 3
Fall  Hours  Spring  Hours  Summer 1  Hours  Summer 2  Hours
Co-op  CY 4170 or 5240 4 FINA 2201 4 Co-op
Business concentration 2
Business concentration 3
CY 4740 4
THTR 1170 1

0 17 8 0

Year 4
Fall  Hours  Spring  Hours  Summer 1  Hours  Summer 2  Hours
Co-op  ENGW 3302 4 STRT 4501 4
MISM 2301 4 Elective 4 4
Business concentration 4
Cybersecurity elective 4

0 16 8

Year 5
Fall  Hours  Spring  Hours  Summer 1  Hours  Summer 2  Hours
Co-op  MISM 2301 4
STRT 4501 4 Business concentration 4
Cybersecurity elective 4

0 16

Total Hours: 130

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

Year 1
Fall  Hours  Spring  Hours  Summer 1  Hours  Summer 2  Hours
CS 1200 1  CS 2510 and CS 2511 5 Vacation  Vacation
CS 1800 and CS 1802 5  CY 2550 4
CS 2500 and CS 2501 5  MATH 1341 or 1231 4
ENGW 1111 4  ACCT 1201 4
ECON 1115 or 1116 4

19 17 0 0

Total Hours: 134