

# FINANCE AND TECHNOLOGY MAJOR (B.S.)

The FinTech major is intended for students interested in learning about the application of technology to solve financial problems and studying the positive impact of these applications on society. Students in this major will develop a foundation in financial markets and institutions, data structures and queries, and the use of programming languages. The major requires students to take four CS courses providing a foundation in database and programming techniques, one EC course providing a foundation in macroeconomics, three FI courses providing a foundation in financial concepts, and three FT courses providing the link between technology, financial services, and social innovation. Through the lens of the financial services sector, students will learn how the interplay between finance and technology creates efficiencies and social innovations across different geographic regions in the world.

For further information about degree requirement policies and guidelines, see the Degree Requirements ([catalog.bentley.edu/undergraduate/degree-requirements/](http://catalog.bentley.edu/undergraduate/degree-requirements/)) page.

## Major Requirements

### Major Courses (34 Credits)

Course	Title	Credits
<b>Required Courses</b>		
CS 150	Introduction to Data and Information Management	3
or CS 160	Data-Driven Decision Making	
CS 230	Introduction to Programming with Python	3
CS 350	Database Management Systems	3
CS 370	Introduction to Machine Learning	3
EC 112	Principles of Macroeconomics	3
FI 305	Principles of Accounting and Finance	3
FI 306	Financial Markets and Investment	3
FI 325	Operations of Financial Institutions	3
FT 323	Introduction to FinTech	3
FT 324	Blockchain Applications and Decentralized Finance	3
FT 370	Investment Applications of Natural Language Processing	4
<b>Total Credits</b>		<b>34</b>

### The Business Environment (6 Credits)

Course	Title	Credits
CS 305	Business Processes and Systems	3
MG 300	Strategic Management	3
<b>Total Credits</b>		<b>6</b>

## General Degree Requirements Foundations for Success (15 Credits)

Course	Title	Credits
FDS 100	Falcon Discovery Seminar	3

### Communications and Writing

Select one from:

EMS 101	Critical Reading and Writing	3
or EMS 101L	Critical Reading and Writing with Lab	
or EMS 102	Critical Reading and Writing for ESOL	
or EMS 102L	Critical Reading and Writing for ESOL with Lab	

And one from:

EMS 104	Multimodal Communication	3
or EMS 105	Multimodal Communication for ESOL	

### Information Technology

CS 100	Solving Business Problems with Information Technology	3
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### Mathematical Sciences

Select one from:

MA 105	Mathematical Foundations for Business	3
or MA 105L	Mathematical Foundations for Business with Lab	
or MA 107	Applied Calculus for Business	
or MA 107L	Applied Calculus for Business with Lab	
or MA 131	Calculus I	
or MA 131L	Calculus I with Lab	

<b>Total Credits</b>		<b>15</b>
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## Context and Perspectives (18 Credits)

Course	Title	Credits
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Students must take six courses, one in each category of Context and Perspectives:

	Culture, Change, and Behavior ( <a href="http://catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#culturechangeandbehavior">catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#culturechangeandbehavior</a> )	
	Globalization ( <a href="http://catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#globalization">catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#globalization</a> )	
	Institutions and Power ( <a href="http://catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#institutionsandpower">catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#institutionsandpower</a> )	
	Race, Gender, and Inequality ( <a href="http://catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#racegenderandinequality">catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#racegenderandinequality</a> )	
	Scientific Inquiry ( <a href="http://catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#scientificinquiry">catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#scientificinquiry</a> )	
	Values, Ethics, and Society ( <a href="http://catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#valuesethicsandsociety">catalog.bentley.edu/undergraduate/degree-requirements/context-and-perspectives/#valuesethicsandsociety</a> )	

<b>Total Credits</b>		<b>18</b>
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## Business Dynamics/Business Administration Minor (18 Credits)

Course	Title	Credits
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All courses are required:

AC 115	Introduction to Financial Reporting and Analysis	3
EC 111	Principles of Microeconomics	3
FI 118	Introduction to Finance	3
LA 100	Business Law	3
MG 116	Human Dynamics in Organizations	3

ST 113	Business Statistics	3
<b>Total Credits</b>		<b>18</b>

### Communication Intensive

All students are required to take a three-credit course designated as a Communication Intensive. This requirement can be met within a variety of course subjects in both Arts & Sciences and Business. Communication Intensive courses are designated with a "CI" in the course schedule. *Transfer students with a minimum of 30 credits will be waived from the Communication Intensive requirement.*

Please note that certain majors have an additional three-credit Communication Intensive built into their major requirements, separate from the general CI requirement.

## Additional Requirements

### Arts and Sciences Electives (15 Credits)

Course	Title	Credits
Select five Arts & Sciences elective courses		15
<b>Total Credits</b>		<b>15</b>

### Unrestricted Electives (15 Credits)

Course	Title	Credits
Select five elective courses		15
<b>Total Credits</b>		<b>15</b>

**Total: 121 Credits**