BACHELOR OF SCIENCE IN FINANCIAL TECHNOLOGY

Program Contact: Matthew O'Connor
(matthew.oconnor@qu.edu) 203-582-8297

The STEM-designated Financial Technology (FinTech) major represents a dynamic and rapidly evolving sector that leverages technology to enhance and streamline financial services while also improving security and financial decision-making. FinTech encompasses a wide range of innovations and applications, from mobile banking and digital payments to robo-advisers, wealth management and blockchain.

Degree earners will learn about the emerging intersection between finance and technology including blockchain and machine learning applications, decentralized finance (DeFi), financial modeling and analytics, data mining and other technology-based financial innovations. Be prepared for cutting-edge careers in financial information technology, financial applications support and development, as well as traditional financial fields. Participate in GAME Forum, the Student-Managed Portfolio, Investments Club, Microlending Club and other student organizations.

The BS in Financial Technology requires a minimum of 122 credits for degree completion.

Please see footnotes for additional information.

Code	Title	Credits
University Curriculum (http://catalog.qu.edu/academics/university-curriculum/)		**46**
Complete the Business Core Curriculum (http://catalog.qu.edu/business/#corecurriculumtext)		**28**
Financial Technology Core		
CIS 245	Programming With Python	3
FIN 301	Introduction to Financial Technology	3
FIN 310	Investment Analysis	3
FIN 320	Financial Modeling	3
FIN 325	Financial Analytics	3
FIN 331	Decentralized Finance: Blockchain, Crypt	3
or CIS 371	Intro to Blockchain Tech for Business	
FIN 425	Advanced Financial Analytics	3
Financial Technology Electives		
Select three courses from the following list:		9
BAN 220	Data Mining for Business Insights	
BAN 420	Machine Learning and Artificial Intelligence for Business	
CIS 350	Data Analysis with Excel (AC 350)	
DS 300	Tools for Data Science	
DS 380	Data Mining *	
DS 385	Machine Learning	
DS 399	Applied Time Series Analysis and Forecasting	
EC 365	Econometrics	
FIN 440	Introduction to Fixed Income Analytics	
FIN 450	Applied Portfolio Management	
FIN 470	Trading Strategies and Practices	
FIN 485	Derivative Securities	
Open Electives		**18**
Total Credits		**122**

* DS 310 is a prerequisite for DS 380.

This is a *recommended* plan of study as course plans are subject to change. Course availability, potential transfer credits, and course prerequisite completion may influence the final course schedule for each program.

Course	Title	Credits
First Year		
Fall Semester		
FYS 101	First-Year Seminar	3
EN 101	Introduction to Academic Reading and Writing	3
SB 101	The Business Environment	3
CIS 101	Introduction to Applied AI and Business Analytics	3
MA 170	Probability and Data Analysis	3
	Credits	**15**
Spring Semester		
EN 102	Academic Writing and Research	3
EC 111	Principles of Microeconomics	3
Business Core		3
Business Core		3
Business Core		3
	Credits	**15**
Second Year		
Fall Semester		
FIN 201	Fundamentals of Financial Management	3
EC 112	Principles of Macroeconomics	3
Business Core		3
Business Core		3
UC Disciplinary Inquiry NS + Lab		4
	Credits	**16**
Spring Semester		
CIS 245	Programming With Python	3
Business Core		3
Business Core		3
Business Core		3
UC Disciplinary Inquiry		3
SB 250	Career Planning and Development	1
	Credits	**16**
Third Year		
Fall Semester		
FIN 301	Introduction to Financial Technology	3
FIN 310	Investment Analysis	3
FIN 320	Financial Modeling	3

UC Disciplinary Inquiry		3
UC Personal Inquiry		3
	Credits	**15**
Spring Semester		
FIN 325	Financial Analytics	3
FIN 331 or CIS 371	Decentralized Finance: Blockchain, Crypt or Intro to Blockchain Tech for Business	3
Open Elective		3
UC Personal Inquiry		3
UC Personal Inquiry		3
	Credits	**15**
Fourth Year		
Fall Semester		
FinTech Elective		3
FinTech Elective		3
Open Elective		3
Open Elective		3
Open Elective		3
	Credits	**15**
Spring Semester		
FinTech Elective		3
FIN 425	Advanced Financial Analytics	3
SB 420	Strategic Management Integrated Seminar	3
Open Elective		3
Open Elective		3
	Credits	**15**
	Total Credits	**122**

Student Learning Outcomes

Upon completion of this degree program, students will demonstrate:

1. **Business Knowledge:** Students become familiar and competent with the major functions and areas of FinTech, such as the emergence of transformative technologies in the finance sector, including#cryptocurrency, peer-to-peer lending, crowdfunding, blockchain and other technology-driven disruptive financial strategies. Students will learn FinTech applications#in wealth management, insurance, banking, risk management and portfolio optimization. Students learn about the careers in the FinTech industry.

2. **Business Analytics**: Students complete projects that analyze cryptocurrencies, peer-to-peer lending, crowdfunding, blockchain and technology-driven disruptive financial strategies. Students will apply their knowledge to automate traditional activities such as Wealth Management, Insurance, Banking, Risk Management and Portfolio Optimization through computer applications. Students will create and work on new FinTech applications utilizing the most up-to-date programming languages.

3. **Communication**: Students communicate ideas effectively through oral presentations and written reports. Students develop investment ideas in traditional assets as well as new securities such as cryptocurrencies and communicate them effectively to clients and users.

4. **Critical Thinking:** Students analyze current issues in relation to the FinTech industry, especially related to DeFi (Decentralized Finance). Students develop recommendations for new applications in FinTech. Students learn to evaluate the work of others. Students assess the benefits/issues with various new FinTech applications. Students evaluate and critique all new FinTech applications and make recommendations. Students think critically to evaluate legal aspects of new FinTech applications, such as cryptocurrencies.

5. **Business Ethics:** Students apply ethical frameworks of FinTech applications to evaluate situations and determine appropriate solutions. Students focus on prevention of legal problems and good professional practice. FinTech has embedded programs and protocols that enforce compliance (RegTech). Students demonstrate an understanding of the role of SEC, FED, the legislature and the courts in regulating the FinTech industry. Students evaluate laws and policies designed to protect consumers.

6. **Cultural Adaptability**: Students recognize and apply knowledge and diversity within and across individuals and groups.

7. **Professionalism:** As with all School of Business programs, professional behavior, including a strong work ethic, will be emphasized. Student interactions with faculty, staff and colleagues, and team assignments are some of the ways in which this is inculcated.

Admission Requirements: School of Business

The requirements for admission into the undergraduate School of Business programs are the same as those for admission to Quinnipiac University.

Admission to the university is competitive, and applicants are expected to present a strong college prep program in high school. Prospective first-year students are strongly encouraged to file an application as early in the senior year as possible, and arrange to have first quarter grades sent from their high school counselor as soon as they are available.

For detailed admission requirements, including required documents, please visit the **Admissions** page of this catalog.

Seamless Transfer Agreement with Gateway Community College (GCC), Housatonic Community College (HCC) and Norwalk Community College (NCC)

Under this Transfer Agreement, GCC, HCC and NCC graduates will be guaranteed admission into a bachelor's degree program with third year (junior) status at Quinnipiac University on the condition that they:

- Graduate with an associate in arts, an associate in science in business, College of Technology engineering science, nursing or an allied health degree with a minimum cumulative GPA of 3.00 (this may be higher in specific programs).
- Satisfy all other Quinnipiac University transfer admission requirements and requirements for intended major.

Suggested Transfer Curriculum for BS in FinTech

A minimum of 60 credits is required for transfer into the BS in FinTech program. Below is a sample plan of study for the first two years prior to matriculation at Quinnipiac University.

Course	Title	Credits
First Year		
Fall Semester		
English I		3
Introduction to Business		3
Microeconomics		3
Business Statistics		3
History Elective		3
	Credits	**15**
Spring Semester		
English II		3
Macroeconomics		3
Financial Accounting		3
Information Systems		3
Marketing		3
	Credits	**15**
Second Year		
Fall Semester		
Managerial Accounting		3
Finance		3
International Business		3
Management		3
Art Elective		3
	Credits	**15**
Spring Semester		
Operations Management		3
Business Law		3
Science Elective with Lab		4
Social Science Elective		3
Additional Elective (Business or other)		3
	Credits	**16**
	Total Credits	**61**