FINTECH (MS)

Department Website (https://www.stern.nyu.edu/programs-admissions/masters-programs/ms-fintech/)

NYSED: 41196 **HEGIS:** 0599.00 **CIP.** 30.7104

Program Description

Fintech is revolutionizing how firms create and deliver products and services, provide new gateways for entrepreneurship, address privacy and regulatory challenges, and seed opportunities for inclusive growth. Increasingly, technological advances are transforming the main financial intermediation functions: payments, capital raising, investment, remittances, managing uncertainty and risk, market price discovery, and mediating information asymmetry and incentives. In today's fintech businesses, consumers bank via mobile apps integrated into social media, institutions trade electronically, and robo-advisers make decisions about investment portfolios.

Fintech business leaders, whether they work at incumbent financial institutions, fintech startups, or technology companies, need to be fluent in evolving quantitative methodologies like machine learning and artificial intelligence, grasp basic foundational fintech technologies like blockchain, understand core financial services practices and operations, and become comfortable leading disruptive innovation in financial services enterprises.

Admissions

The Master of Science in Fintech Program is designed for experienced professionals who recognize the growth of fintech and are looking to advance their skillset in this dynamic and rapidly growing sector.
To apply to the Master of Science in Fintech Program, you must have:

- A minimum of five years of professional, full-time work experience.
- A bachelor's degree and strong Grade Point Average.
- Demonstrated academic/quantitative preparedness, either through prior coursework, professional experience, and/or certifications.

See Admissions (https://www.stern.nyu.edu/programs-admissions/masters-programs/ms-fintech/admissions/) for admission requirements and instructions specific to this program.

Program Requirements

The program requires the completion of 34 credits, comprised of the following:

Course	Title	Credits
Major Requirements		
XFN1-GB 8101	Finance Concepts and Math	1.5
XFN1-GB 8102	R Programming for Data	1.5
XFN1-GB 8103	Databases for Business Analytics	1.5
XFN1-GB 8104	Ethics in Fintech	1
XFN1-GB 8105	The Financial Services Industry	1.5
XFN1-GB 8106	Statistical Foundations of Machine Learning	1.5
XFN1-GB 8107	Big Data & Dealing with Data in Finance	1.5
XFN1-GB 8108	Platform Strategy in Fintech	1.5
XFN1-GB 8109	Strategy, Change, and Fintech	1.5
XFN1-GB 8110	Financial Markets Processes and Technology	1
XFN1-GB 8111	Regulation in Fintech	1
XFN1-GB 8112	Data Visualization for Fintech	1
XFN1-GB 8113	Behavioral Finance	1.5
XFN1-GB 8114	Blockchain and Cryptocurrencies	1.5
XFN1-GB 8115	Machine Learning in Finance	1.5
Venture Capital in Fintech		1
Valuation and Unicorns in Fintech		1
Fintech Startup Case Studies		2.5
Fintech in Emerging Markets		1
Cyber Risk Management		1
Artificial Intelligence and Machine Learning in Risk Management		1
Leadership in Fintech		1
Capstone		5
Total Credits		**34**

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
XFN1-GB 8101	Finance Concepts and Math	1.5
XFN1-GB 8102	R Programming for Data	1.5
XFN1-GB 8103	Databases for Business Analytics	1.5
XFN1-GB 8104	Ethics in Fintech	1
XFN1-GB 8105	The Financial Services Industry	1.5
XFN1-GB 8106	Statistical Foundations of Machine Learning	1.5
XFN1-GB 8107	Big Data & Dealing with Data in Finance	1.5
	Credits	10
2nd Semester/Term		
XFN1-GB 8108	Platform Strategy in Fintech	1.5
XFN1-GB 8109	Strategy, Change, and Fintech	1.5
XFN1-GB 8110	Financial Markets Processes and Technology	1
XFN1-GB 8111	Regulation in Fintech	1
XFN1-GB 8112	Data Visualization for Fintech	1
XFN1-GB 8113	Behavioral Finance	1.5
XFN1-GB 8114	Blockchain and Cryptocurrencies	1.5
XFN1-GB 8115	Machine Learning in Finance	1.5
	Credits	10.5
3rd Semester/Term		
Venture Capital in Fintech		1
Valuation and Unicorns in Fintech		1
Fintech Startup Case Studies		2.5
Fintech in Emerging Markets		1
Cyber Risk Management		1
Artificial Intelligence and Machine Learning in Risk Management		1
Leadership in Fintech		1
	Credits	8.5
4th Semester/Term		
Capstone		5
	Credits	5
	Total Credits	**34**

Note: 1st semester/term courses are taken in two parts in the Summer. 2nd semester/term courses are taken in two parts in the Fall. 3rd semester/term courses are taken in two parts in the Spring. The Capstone course is taken in the Summer of the following year.

See Course Index (https://www.stern.nyu.edu/programs-admissions/masters-programs/ms-fintech/overview-academics/course-index/#two) for more information pertaining to the Modules for this program.

Learning Outcomes

Upon successful completion of the program, graduates will:

1. Acquire fundamental strategic skills necessary for executive success in dynamic, technology-driven financial services businesses.
2. Obtain specialized tactical knowledge critical to rapidly emerging interdisciplinary sub-fields in fintech such as platform strategy, regulation, and machine learning.
3. Acquire a toolkit of methodologies and practices applicable to real world fintech issues.
4. Develop their capacity to shape their organizations, and to behave ethically as the financial services industry automates.
5. Become leaders in the Fintech field and join the NYU Fintech community, with access to continuing education and personal development based on NYU's leading fintech research, fintech professional associations, and fintech events and seminars, key to the rapidly evolving fintech firms of the future.

Policies
NYU Policies

University-wide policies can be found on the New York University Policy pages (https://bulletins.nyu.edu/nyu/policies/).

Stern Policies

Additional academic policies can be found on the Stern Graduate Academic Policies page (https://bulletins.nyu.edu/graduate/business/academic-policies/).