c) Revised curriculum

Society Hub - BSc in Financial Technology

(For students admitted in 2025-26 under the 4-year degree)

BSc in Financial Technology

120 credits are required for BSc in Financial Technology

- ***30 credits for University Common Core Courses***
- ***86-87 credits for Major Requirements, including:***
  - ***24-25 credits for Fundamental Courses***
  - ***44 credits for Major Required Courses***
  - ***18 credits for Major Elective Courses***
- ***Free Electives Courses can be used to fill in any shortfall in total credits***

Fundamental Courses (24-25 credits)

Course Code		Course Title	Credit(s) attained	
UFUG		*Note: (UFUG 1102 OR UFUG 1105)* ***AND*** *(UFUG 1103 OR UFUG 1106)*	**6**	
UFUG	1102	Calculus I	3	
UFUG	1103	Calculus II	3	
UFUG	1105	Honors Calculus I	3	
UFUG	1106	Honors Calculus II	3	
UFUG		*Note: UFUG 1601* ***OR*** *UFUG 1603*	**3**	
UFUG	1601	Introduction to Computer Science	3	
UFUG	1603	Honors Introduction to Computer Science	3	
UFUG		*Note: UFUG 2601* ***OR*** *UFUG 2602*	**3-4**	
UFUG	2601	C++ Programming	4	
UFUG	2602	Data Structure and Algorithm Design	3	
UFUG	2101	Introduction to Multivariate Calculus	**3**	

UFUG		*Note: UFUG 2102* ***OR*** *UFUG 2103*	**3**	
UFUG	2102	Matrix Algebra and Applications	3	
UFUG	2103	Linear Algebra	3	
UFUG	2105	Optimization	**3**	
UFUG	2106	Discrete Mathematics	**3**	

Major Required Courses (44 credits)

Course Code		Course Title	Credit(s) attained
FTEC	1010	Academic Orientation for FTEC Students	**1**
FTEC	2120	Probability	**4**
FTEC	3110	Numerical Analysis	**3**
FTEC	3130	Statistical Inference	**3**
FTEC	3210	Data Analysis with Python	**3**
FTEC	3310	Economic Theory for FinTech	**3**
FTEC	3320	Asset Pricing Theory	**3**
FTEC	3330	Intermediate Corporate Finance	**3**
FTEC	4210	Blockchain, Cryptocurrencies and Smart Contracts	**3**
FTEC	4310	Financial Markets Trading and Structure	**3**
FTEC	4910	Final Year Project	**6**
DSAA	2011	Machine Learning	**3**
DLED	3030	English Communication I for Society Hub Programs	**3**
DLED	4030	English Communication II for Society Hub Programs	**3**

Program Major Elective Courses (18 credits)

Course Code		Course Title	Minimum credit(s) required
Note:		*FTEC Electives (minimum 6 courses from the specified elective list)*	**18**
FTEC	2320	Microeconomics	3
FTEC	2330	Macroeconomics	3

FTEC	3120	Stochastic Modeling	3	
FTEC	3140	Real Analysis	4	
FTEC	3340	Introduction to Econometrics	4	
FTEC	4110	Statistical Machine Learning	3	
FTEC	4220	Internet Finance	3	
FTEC	4230	Cybersecurity and Compliance	3	
FTEC	4240	Digital Assets	3	
FTEC	4250	Natural Language Processing for FinTech	3	
FTEC	4260	Computer and Communication Networks	3	
FTEC	4270	Introduction to Graph Theory	4	
FTEC	4280	Data Visualization	3	
FTEC	4320	Financial Data Analysis	3	
FTEC	4330	Game Theory	3	
FTEC	4340	Decentralized Finance	3	
FTEC	4350	Algorithmic Trading and Robo-Advising	3	
FTEC	4360	Climate Finance	3	
FTEC	4410	Financial Derivatives and Structured Products	3	
FTEC	4420	Risk Management	3	
FTEC	4430	FinTech Regulation and Policies	3	
FTEC	4510	Key Skills for FinTech Professionals	1	