

FTA COURSES

Financial Technology (FinTech) is a business sector at the intersection of information technology and financial services. FinTech companies provide a wide range of financial services to clients worldwide. The FinTech minor will help students in the BBA and BAS- Technology Management degree programs prepare for employment in this high-demand field.

Required Courses:

FTA 4001	Foundations of Fintech	3
FTA 4002	Financial Technologies	3
FTA 4003	Commercial Banking in FinTech	3

Elective Courses: 6

Select two from the following courses:

BUSA 3532	Bus Analytics/Data Mining	
CAPS 1145	Introduction to Networks	
CAPS 1152	Linux	
ECON 4101	Applied Econometrics	
FINC 3101	Intermediate Corporate Finance	
FTA 4005	Intro Financial Data Analytics	
FTA 4100	Inform. Security for FinTech	
ITEC 3251	Linux II	
MGIS 3352	Management Application Prog I	
MGIS 3353	Management Applications Programming II	
MGIS 3356	Database Management Systems	
MGIS 3390	Management of IS Security	
MGIS 4358	Web-based MIS	
MGIS 4360	Databases:Big Data & Analytics	

Total Hours 15

Courses

FTA 4001. Foundations of Fintech. 3-0-3 Units.

The financial services industries are changing rapidly with the emergence of financial technology (FinTech). The objective of the course is to provide students with an overview of FinTech and introductions to its applications in financial services, such as commercial and investment banking, digital investing, financial advising, and insurance. Students are expected to develop a broad understanding of the recent FinTech development and its impact on different parts of the financial world. Students will also have hands-on problem-solving experiences that can be useful in FinTech applications and innovation. Topics may include but are not limited to: blockchain and cryptocurrencies, smart contracting, payments, digital banking, P2P lending, crowdfunding, robo-advising, and InsurTech.

Prerequisites: WSOB or STM advisor approval.

FTA 4002. Financial Technologies. 3-0-3 Units.

This course examines the information and communications tools, technologies, and standards integral to consumer, merchant, and enterprise services in the payments and financial service sectors. Explores technology's role in reshaping FinTech businesses. Technologies span messaging, communication networks and gateways, core processing, mobile and online software, and application program interfaces (APIs). Includes the challenges, standards, and techniques associated with securing systems and data.

Prerequisites: WSOB or STM advisor approval.

FTA 4003. Commercial Banking in FinTech. 3-0-3 Units.

The FinTech revolution is creating significant disruption to the traditional processes of managing and regulating financial institutions, especially banks. Digital technology is increasingly altering basic financial intermediation functions such as payment processing, risk management, information dissemination, price discovery, capital raising, and consumer expectations concerning access to funds and the timing of loan decisions. Understanding, assessing and forecasting FinTech's impact on banking is particularly important because proper management and oversight of financial institutions is essential to the efficient operation of the national, as well as global, economy. In this course, students will learn about the principles and practices of commercial bank management, bank regulation, and the tradeoffs between risk and return. Challenges presented by the FinTech evolution, including traditional and emergent competitors as well as demographic, social, and technology forces driving change in the industry, will be integrated throughout the entire course.

Prerequisites: WSOB or STM advisor approval.

FTA 4005. Intro Financial Data Analytics. 3-0-3 Units.

This course provides the foundation for financial data analytics used in business and FinTech applications. The objective of this course is for students to gain experience in analyzing financial data using modern machine learning techniques, statistical methods, and prediction models. Students will develop computational skills to perform data analysis using a modern statistical programming environment, and apply these skills to address a range of problems encountered by business firms, including those in the FinTech industry. The topics discussed include an introduction to R language, visualization of financial data, cluster analysis, simple and multiple linear regression, classification models, high dimension data analysis using Lasso, and model assessment and selection using cross validation. Students will have hands-on experience in the development of data analytics applications to analyze real world financial problems.

Prerequisites: WSOB or STM advisor approval.

FTA 4100. Inform. Security for FinTech. 3-0-3 Units.

The purpose of this course is to introduce the business student to the rapidly evolving and critical international arenas of privacy, information security, and critical infrastructure. This course is designed to develop knowledge and skills for security of information and information systems within organizations. It focuses on concepts and methods associated with security across several systems platforms, including internal and Internet-facing systems. The course utilizes a world view to examine critical infrastructure concepts as well as techniques for assessing risk associated with accidental and intentional breaches of security in a global network. It introduces the associated issues of ethical uses of information and of privacy considerations.

Prerequisites: WSOB or STM advisor approval.