

# FINTECH CONCENTRATION

This concentration will give students a deeper exposure and skill set in the evolving use of technology to deliver financial services, commonly referred to as FinTech. Students can opt for the technical aspects of these innovations, or, on the application of such technology. We expect students majoring in finance to focus on the applications of FinTech, such as the use of Blockchain in setting up cryptocurrencies, machine learning for data analytics, and artificial intelligence in investment management. I.S. students would typically focus more on the computational aspects and applications. Expertise in the use of FinTech will allow students to access opportunities in this high-demand area.

## Requirements

The Primary Concentration in FinTech is a 15 credit program, not including two prerequisite courses. Of the 15 credits, one class is a required introductory class to FinTech, and the rest are electives.

## Prerequisites

Before taking any courses for the concentration, students must first complete the following courses:

- Core Information Systems: ISGB 6910 Business Tech & Analytics
- Core Finance: FNGB 6411 Intro Financial Sys & Methods

## Curriculum

Course	Title	Credits
FNGB 74BK	Fintech -An Introduction <sup>1</sup>	3
	or ISGB 799X Fintech -An Introduction	
12 Credits of Elective Courses (see below)		12
At least 3 credits of Finance courses		
At least 3 credits of Information Systems courses		
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Students focusing in Finance should take the FNGB course, and students focusing on Information Systems should take the ISGB course.

## Additional notes

- No more than 4.5 credits of the follow courses may apply toward this concentration
  - SAGB 76BS Blockchain: Industry Disruptor and Creator
  - FNGB 849I Blockchain
  - FNGB 849J Digital Currencies
- Double-counting:
  - No more than 3 credits may also apply toward the secondary concentration in Blockchain
  - No more than 4.5 credits may apply toward the primary concentration in Finance
- Some courses have pre-requisites which may not necessarily apply to the concentration.

## Information Systems courses for FinTech

*Courses in this group have the ABFI attribute.*

Course	Title	Credits
ISGB 7902	System Analysis & Design	3
ISGB 7943	Programming with Python	3
ISGB 7967	Machine Learning for Business	3
ISGB 7973	Data Management and SQL	3
ISGB 7977	Natural Language Processing and Applications	3
ISGB 7990	Cloud Computing for Analytics	3

## Finance courses for FinTech

*Courses in this group have the ABFF attribute.*

Course	Title	Credits
FNGB 74AT	Fintech Compliance- Asia to Us	3
FNGB 74AU	Algorithm Trading	3
FNGB 74BG	Auto Trading Systems - Intro	3
FNGB 74BT	Fintech Lending & Payments	3
FNGB 849I	Blockchain	1.5
FNGB 849J	Digital Currencies	1.5
FNGB 849N	Fintech: Disruption in Finan Services	1.5-3
GFGB 7039	Computational Finance	3
GFGB 7050	Machine Learning for Finance	3
GFGB 7051	Econtech: Econ & Data Mining	3

## FinTech courses in Other Areas

*Courses in this group have the ABFO attribute.*

Course	Title	Credits
SAGB 76BS	Blockchain: Industry Disruptor and Creator	3