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 | 3
or ISGB 799X | Fintech - An Introduction | 3

12 Credits of Elective Courses (see below)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNGB 849I</td>
<td>Blockchain</td>
<td>1.5</td>
</tr>
<tr>
<td>FNGB 849J</td>
<td>Digital Currencies</td>
<td>1.5</td>
</tr>
<tr>
<td>FNGB 849N</td>
<td>Disruption in Finan Services</td>
<td>1.5</td>
</tr>
<tr>
<td>FNGB 849P</td>
<td>Fintech Lending &amp; Payments</td>
<td>1.5</td>
</tr>
<tr>
<td>GFGB 7039</td>
<td>Computational Fin for MSGF</td>
<td>3</td>
</tr>
<tr>
<td>GFGB 7050</td>
<td>Machine Learning for Finance</td>
<td>3</td>
</tr>
<tr>
<td>GFGB 7051</td>
<td>EconTech: Econ &amp; Data Mining</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15

1 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
  - BLGB 739M Blockchain, Virtual Currencies, and Tokens: An Examination of Business and Legal Issues
  - 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 7967 | Data Mining for Business | 3
ISGB 7973 | Database Management | 3
ISGB 7977 | Text Analytics | 3
ISGB 7990 | Programming with Python | 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 849I | Blockchain | 1.5
FNGB 849J | Digital Currencies | 1.5
FNGB 849N | Disruption in Finan Services | 1.5
FNGB 849P | Fintech Lending & Payments | 1.5
GFGB 7039 | Computational Fin for MSGF | 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
--- | --- | ---
BLGB 739M | Blockchain, Virtual Currencies, and Tokens: An Examination of Business and Legal Issues | 3
SAGB 76BS | Blockchain: Industry Disruptor and Creator | 3