# Master of Science in FinTech

Curriculum Plan (11 Courses, 33 Credits)
All Courses are 3 Credits.

<table>
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<tr>
<th>STUDENT NAME</th>
<th>STUDENT ID</th>
<th>ADVISOR</th>
<th>START TERM</th>
<th>Fall 2024</th>
<th>Spring 2025</th>
<th>Fall 2025 (TBD)</th>
<th>Spring 2026 (TBD)</th>
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<td>Fall 2024</td>
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## Required Courses

- MIS 510 Business Application of Blockchain Tech
  - On-Campus (Spring C Term)
- MIS 520 Artificial Intelligence and its Business Applications
  - On-Campus (B-Term)
- MIS 587 Business Applications in Machine Learning
  - On-Campus

**MS FinTech students must complete two, three-course specialties, selected from the following three specialties below.**
**FIN 530 must be chosen for one specialty and FIN 540 for the other specialty.**

### Specialty in Advanced Financial Mathematics

**Choose one of the below:**
- FIN 530 Cryptocurrencies and Financial Markets
  - On-Campus (Fall B Term)
- FIN 540 Financial Analytics
  - On-Campus (Spring C Term)

**Choose two of the below:**
- MA 571 Financial Mathematics I
- MA 572 Financial Mathematics II
- MA 573 Computational Methods of Financial Mathematics
- MA 574 Portfolio Valuation and Risk Management
- MA 575 Market and Credit Risk Models and Management
- MA 590 Computational Statistics

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### Specialty in FinTech Analytics

**Choose one of the below:**
- FIN 530 Cryptocurrencies and Financial Markets
  - On-Campus (Fall B Term)
- FIN 540 Financial Analytics
  - On-Campus (Spring C Term)

**Choose two of the below:**
- MIS 502 Data Management for Analytics
  - Online
- MIS 571 Database Applications Development
  - Online
- MIS 584 Business Intelligence
  - Online | On-Campus
- OIE 559 Adv Perspective Analytics: From Data to Impact
- DS 502 Statistical Methods for Data Science
  - Please check course offerings in Workday Academics Application and courselistings.wpi.edu
- DS 503 Big Data Management
- DS 541 Deep Learning

### Specialty in FinTech Development

**Choose one of the below:**
- FIN 530 Cryptocurrencies and Financial Markets
  - On-Campus (Fall B Term)
- FIN 540 Financial Analytics
  - On-Campus (Spring C Term)

**Choose two of the below:**
- MIS 583 User Experience Applications
  - Online | On-Campus
- CS 5007 Intro to Prog Concepts, Data Struct and Algorithms
- CS 5008 Networks and Systems
- CS 5084 Intro to Algorithms: Design and Analysis
- CS 513 Computer Networks
- CS 528 Mobile and Ubiquitous Computing
- CS 573 Data Visualization
- CS 578 Cryptography and Data Security

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### Required Capstone Courses

- OBC 505 Teaming and Organizing for Innovation
  - (recommended 2nd or 3rd semester)
  - Online
- BUS 596 Master of Science Capstone Project (take in 2nd year)
  - On-Campus

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Updated: February 15, 2024
• **COURSE DELIVERY MODES:**
  o Online Courses: All online courses offered are asynchronous.
  o On Campus Courses: Meet synchronously and in person at specific times on a weekly basis.
  o Hybrid Courses: Combine synchronous and asynchronous course delivery. On campus meeting times vary by course
  o Please refer to WPI Business School course schedule Course offerings for AY24-25, courselistings.wpi.edu.

• **DECLARATION OF SPECIALTY:** All incoming full-time students are required to declare a specialty, latest by add/drop of first semester. Second specialty must be declared, latest by add/drop of third semester.

• **TRANSFER CREDITS:** Students awarded transfer credit must secure approval for list the approved courses and credit hours.

• **INTERNATIONAL STUDENTS:** On campus, international students are encouraged to complete an internship for zero credits to ensure their readiness for employment in the U.S.

• **APPROVAL:** Students must have their individual curriculum plan reviewed and approved by the WPI Business School Programs Office. For more information, and approval: WBSGradAdvising@wpi.edu