

Core (6 courses)

- Statistics & Analysis
- Financial Accounting I
- Financial Management
- Principles of Economics
- Communication Management Fundamentals
- Career Launchpad

Interdisciplinary Collaborative Core (Common Core)

- Inquiry & Communication in an Interdisciplinary World
- Ethics & Civics in a Multicultural World
- Career Design & Workplace Readiness in the V.U.C.A World
- Healthy Living & Well-Being
- Sustainability: Society, Economy & Environment
- Science & Technology for Humanity

Interdisciplinary Collaborative Core (Professional Series)

- Decision Making with Programming & Analytics
- Professional Internship
- Data Science Fundamentals
- Communication Management Strategies
- Career Future Forward
- Career Astuteness

Care, Serve and Learn (CSL)

Core Courses (Finance courses)

- Ethics in the Investment Profession
- Investments
- FinTech in Investment Management
- Financial and Risk Analytics I
- Global Financial Markets and Institutions
- Machine Learning in Finance
- Digital Assets in Finance
- Ethics and Regulations for Digital Finance
- Digital Product Management

Core Courses (Computing and Data Science courses)

- Introduction to Computational Thinking & Programming
- Math 1: Linear Algebra and Calculus for Computing
- Math 2: Discrete Structures for Computing
- Data Structures & Algorithms
- Algorithm Design and Analysis
- Object Oriented Design and Programming
- Software Engineering
- Computer Network
- Introduction to Database Systems

- Cloud Computing

Applied Research Project: Financial Application Design & Development

Broadening and Deepening Electives (3-4 courses)

BACF Specialization Areas and MPE Courses

Choose any 5 modules making up to 15 AUs within or across specialisations. Students are required to take at least 2 courses each from the basket. To qualify for a specialisation, students are required to take the compulsory courses marked with *.

Financial Analytics and WealthTech	
Basket 1 Artificial Intelligence Machine Learning Neural Networks and Deep Learning Natural Language Processing Data Analytics and Mining Data Visualisation*	Basket 2 Equity Investing with Big Data Financial and Risk Analytics II* Introduction to Compliance Relationship Management Wealth Management* Sustainable Finance
Crypto Asset and Blockchain	
Basket 1 Applied Cryptography Security Management Network Security Blockchain Technology*	Basket 2 Alternative Investments* Derivative Securities and Hedging Strategies Financial Risk Management Portfolio Management & Analysis Operational Risk and Resiliency
Digital Banking and Security	
Basket 1 Applied Cryptography Security Management Cyber Threat Intelligence* Network Security SC3000 Artificial Intelligence	Basket 2 Financial Risk Management Introduction to Compliance* Sustainable Finance Operational Risk Management Finance

Notes: All modules in this table are 3AU courses. The courses are classified into two baskets of courses. Courses in Basket 1 are tailored for students to deep-dive into the hard-core computing aspects of FinTech while Basket 2 courses cater to helping students understand the finance and business side of FinTech. Students can choose any 5 modules (15 AUs) within or across specializations to satisfy their MPE requirements.

Students can also select any courses from across the specializations to satisfy the MPE requirements. However, students would need to take at least 2 courses each from the two baskets to ensure they have balanced exposure to the computing aspect of FinTech as well as finance and business aspect. The remaining course can be taken from either basket. To qualify for a specialization, students would also need to take the compulsory courses (marked with *). These compulsory courses can be used to satisfy the criteria of at least 2 courses from each basket.