

NUS School of Computing

Master of Science in Digital Financial Technology (MSc DFinTech)

(Applicable to August 2026 Intake onwards)

Core/Essential Courses (28 units)

Complete any three (12 units) of the following courses:

FT5001 Fintech Innovations: A Strategic Landscape
FT5002 Digital and AI Transformation in Finance
FT5003 Blockchain Innovations
FT5004 Programming for Blockchain Applications
FT5005 Machine Learning for Finance
FT5009 Contemporary Topics in Financial Data Analytics
FT5010 Algorithmic Trading Systems Design and Deployment
FT5011 Deep Learning for Finance
FT5012 Digital Trust in Banking and Finance
FT5013 Digital Asset Innovations in Finance
FT5014 AI Risk in the Financial Sector

Complete all (16 units) of the following courses:

BMD5301 Introduction to Finance for FinTech Professionals
BMD5302 Financial Modelling for FinTech Professionals
IT5001X Software Development Fundamentals
IT5006 Fundamentals of Data Analytics

Students who have taken courses similar to BMD5301 and IT5001X can replace* these courses by taking the following replacement courses or FT50xx courses:

IT5003 Data Structures and Algorithms
IT5004 Enterprise Systems Architecture Fundamentals
IT5005 Artificial Intelligence
IT5008 Database Design and Programming

***Note:** Students who wish to take replacement courses are required to submit their requests to the School of Computing for prior approval. However, for IT5001X, students are required to take an in-person proficiency test (non-refundable administrative fee applies) to assess their eligibility. All other core courses are required for all students.

Important:

1. Courses in this list may be subject to change as determined by the School.
2. Please note that not all courses are offered every semester. Students are advised to refer to the course schedule and plan their studies accordingly.

Capstone Project (12 units)

Complete one of the following options:

1. FT5007 FinTech Capstone Project** (12 units); or
2. Three elective courses (3 × 4 units) from the prescribed elective list.

****Note:** Students are required to fulfil all pre-requisites/co-requisites and minimum unit requirements before embarking on the Capstone Project.