Master of Science in Finance - Quantitative (MSFQ)

Curriculum

Required Courses

Students must complete the following courses:

Code	Title	Units
FIN 500Q	Quantitative Risk Management	3
FIN 500R	Topics in Quantitative Finance	1.5
FIN 524	Options and Futures	1.5
FIN 524B	Derivative Securities	1.5
FIN 525	Fixed Income Securities	1.5
FIN 527	Financial Markets	1.5
FIN 532	Investment Theory	1.5
FIN 532B	Data Analysis for Investments	1.5
FIN 534	Advanced Corporate Finance I - Valuation	1.5
FIN 534B	Advanced Corporate Finance II - Financing	1.5
FIN 537	Advanced Derivative Securities	3
FIN 538	Stochastic Foundations for Finance	1.5
FIN 539	Mathematical Finance	1.5
FIN 552	Fixed Income Derivatives	1.5
MGT 537	Financial Industry Platform for MSFQ and MSFWAM Students	0
MGT 560F	Professional Business Communication	1.5
DAT 537	Data Analysis, Forecasting & Risk Analysis	3
DAT 561	Introduction to Python and Data Science	3

Experiential Courses and Electives

Students select one of the following options:

Option A:

- 1.5 experiential course credits *plus*
- 4.5-6 elective credits from the approved list *plus*
- 1.5 additional approved elective credits (if only 4.5 credits are completed from approved list)

Option B:

- 3 experiential course credits *plus*
- 4.5 elective credits from the approved list

Experiential course options:

Code	Title	Units
MGT 501V	Applied Problem Solving for Organizations	1.5
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MGT 551E	Internship, Business and Application	1.5
FIN 501P	CFAR Practicum	3

Approved MSFQ elective courses:

Code	Title	Units
DAT 500S	Machine Learning Tools for Prediction of Business Outcomes	3
DAT 560G	Database Design and SQL	1.5
DAT 560M	Big Data and Cloud Computing	1.5
CSE 412A	Introduction to Artificial Intelligence	3
CSE 417T	Introduction to Machine Learning	3
CSE 427S	Cloud Computing with Big Data Applications	3
CSE 502N	Data Structures and Algorithms	3
CSE 514A	Data Mining	3

Additional approved elective options (if necessary):

Code	Title	Units
FIN 557E	Introduction to Blockchain and Cryptocurrencies	1.5
FIN 558E	ESG Investing	1.5
MGT 578E	Strategic Data Storytelling and Visualization for Business	1.5
MEC 531	The Global Economy	1.5
Other courses with Academic Director approval		