

The Master of Science with a major in Business and a concentration in Finance (MSB-FIN) is a minimum 30 credit hour program, not counting various prerequisites that may be needed. Prerequisite courses do not count against the total credits required to complete the program. An academic adviser will determine the number and type of prerequisites each student might need prior to enrollment.

Most core classes are offered in an 8-week module format. The module format allows the core curriculum to be completed at an accelerated pace, and students who begin the MSB-FIN program with all prerequisites completed may be able to finish the degree in only one year.

**Admission requirements:**

Admissions for this program are extremely selective and competitive. The MSB-FIN program generally admits 2-5 students on average per year, and admissions occur in the fall and spring semesters.

**PREREQUISITE COURSES: Minimum 16 credit hours**

MATH 121	Calculus I	5 credits
MATH 122	Calculus II	5 credits
One of the following: DSCI 920	Probability for Business Research	4 credits
MATH 727	Probability Theory	3 credits
One of the following: DSCI 921	Statistics for Business Research	4 credits
MATH 728	Statistical Theory	3 credits

**CORE CLASSES: Minimum 2 credit hours**

One of the following:

MGMT 704	Strategic Management	2 credits
FIN 730	Applied Portfolio Management	4 credits

**FINANCE CONCENTRATION: 12 credit hours**

ACCT 701	Financial Accounting	2 credits
FIN 701	Financial Management	2 credits
FIN 705	Investment Theory	2 credits
FIN 706	Investment Analysis	2 credits
FIN 740	Forwards, Futures, and SWAPS	2 credits
FIN 741	Options	2 credits

**ELECTIVES: Minimum of 16 credit hours**

ACCT 704	Financial Statement Presentation and Analysis I	2 credits
ACCT 705	Financial Statement Presentation and Analysis II	2 credits
FIN 725	Business Valuation	3 credits
FIN 730	Applied Portfolio Management	4 credits

FIN 735	International Finance	2-3 credits
FIN 745	Business Investments	2 credits
FIN 746	Business Financing	2 credits
FIN 895	Risk Analysis	2 credits
FIN 895	Mergers and Acquisitions	2 credits
FIN 898	Special Problems in Business Administration	3 credits
BE 917	Advanced Managerial Economics	3 credits
FIN 922	Advanced Regression	3 credits
DSCI 934	Seminar in Probability and Statistics - Time Series - Stochastic Adaptive Control - Reasoning Under Uncertainty	3 credits
FIN 937	Seminar in Business Finance	3 credits
FIN 938	Seminar in Investments	3 credits
FIN 995	Seminar in Optimization	3 credits
MATH 735	Introduction to Optimal Control Theory	3 credits
MATH 750	Stochastic Adaptive Control	3 credits
MATH 783	Applied Numerical Methods for Partial Differential Equations	3 credits
MATH 796	Special Topics: - Statistics of Random Processes - Stochastic Analysis and its Applications - Linear and Optimal Control Systems - Stochastic Adaptive Control of Linear Partial Differential Equations - Fractional Brownian Motion and its Applications - Stochastic Differential Equations and Applications	1-3 credits
MATH 865	Introduction to Stochastic Processes I	3 credits
MATH 866	Introduction to Stochastic Processes II	3 credits
MATH 993	Readings in Mathematics	3 credits

All MSB-FIN students must also complete a comprehensive final examination before graduating from the program.