

Master of Science - Quantitative Finance

Plan Description

The UNLV Lee Business School Master of Science in Quantitative Finance (MSQF) will be a 10-course (30-credit) program that can be finished in 12 months.

The program will provide advanced education and training on core finance knowledge and skills at the graduate level, with special emphasis on quantitative methods in finance and new financial technologies. These quantitative methods include mathematical finance theories as well as statistical and computer-program-based techniques to manage and analyze large financial data sets. Examples of finance theories are those related to capital structure, capital budgeting, valuation, stocks, bonds, derivatives, and portfolio management. Examples of empirical quantitative methods are programming and modeling skills using SAS, Stata, Excel, Python etc. to manage and analyze large databases of financial and investment information.

Students will be able to choose from a menu of electives to prepare themselves for careers in corporate finance, investment management, and the application of technology to financial applications.

The purpose of the program is to prepare successful finance professionals who are capable of utilizing the latest technologies to perform sophisticated financial analysis and management.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degrees Directory.

Plan Admission Requirements

Application deadlines Applications available on the UNLV Graduate College website. Students must: Meet the general requirements for admission to graduate instruction at the University of Nevada, Las Vegas, as described by the Graduate College. Complete the prerequisite (or equivalent) courses listed below with at least a B grade (**3.0 on 4.0 scale**). Principles of Finance (FIN 301/MBA 765) Financial Accounting (ACC 201/MBA 761) Microeconomics (ECON 102/ECON 302/MBA ~~769~~) **Two statistics courses 769**) **Statistics (ECON 261)** **Calculus (ECON ~~261 and ECON 262~~ 440/640, or ~~ECON 441~~)** **Two calculus courses (MATH 181 and both MATH ~~182~~) or one calculus and one linear algebra course (MATH 181 and MATH ~~330~~).** **ECON 440/640 is an alternate way to satisfy the calculus prerequisite 182**). Students who have not met the prerequisite requirements may be granted conditional admission at the discretion of the department. Conform to regulations outlined by the Graduate College of UNLV regarding the TOEFL or other equivalent certifications of English **fluency proficiency**. Satisfactory GMAT or GRE scores. **Preference Preference** is given to applicants with GMAT scores above 550 (or the GRE equivalent). Complete the Graduate College application online and submit a **nonrefundable non refundable** admission **application application application** fee. **Mail official transcripts to the Graduate College.** For information on Conditional Admission, please refer to the **Admission& Registration section of the Graduate ~~Catalog~~ Student Handbook**. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 30

Course Requirements

Core Courses – Credits: ~~18~~ 15

Complete 15 credits by completing all of the following courses ~~below~~:

ECO 770 Econometrics I, Statistical Modeling	3
FIN 708 Advance Corporate Finance	3
FIN 710 Investment Management	3
FINQ 761 Corporate Finance Modeling	3
FINQ 762 Investments Modeling	3
FINQ 773 Capstone Project	3

Elective Courses - Credits: 12

Complete 12 credits from the following courses. At most one elective can be chosen from the MBA courses listed below.

ECO 772 Econometrics II	3
[After] FINQ 721 - CFA Level I Prep	3
[After] FINQ 721 - CFA Level I Prep	
FINQ 766 - Fintech (Financial Technology)	
FINQ 781 - Finance Internship	
FINQ 790 - Finance Independent Study	
FINQ 754 Financial Statement Analysis and Valuation	3
FINQ 757 Special Topics in Corporate Finance	3
FINQ 763 Quantitative Investment Strategies	3
FINQ 764 Derivatives and Risk Management	3
[After] FINQ 766 - Fintech (Financial Technology)	3
FINQ 781 Finance Internship	3
FINQ 790 Independent Study	1-3
FINQ 765 Fixed Income Securities	3
[After] At Most One Elective from the Following Existing MBA Courses:	
FIN 709 Applied topics in Finance	3
FIN 712 Financial Markets and Institutions	3
FIN 740 Risk Management	3
FIN 750 International Financial Management	3

New Core Capstone Project-Credits: 3

FINQ 773 Capstone Project

3

Degree Requirements

A maximum of 6 **credit hours credits** may be transferred into the program if taken recently from an accredited university. Requests for transfer must be evaluated and approved by the MSQF Director after the student is officially admitted, **and must comply with all Graduate College transfer credit requirements**. The capstone project will be a group project of 4-5 students working on a company project or research project identified by faculty or the students. All proposed capstone projects will require approval from the program director to ensure that the learning objectives will be met. Groups will meet with the program director on a regular basis to report on the progress of the project and obtain timely feedback. An oral presentation and written report of the project are required. Individual grades will be determined primarily by the group grade. However, group peer evaluations will be conducted to assess individual contributions. In the event of a student not passing the course due to unsatisfactory **contribution cont ribution** towards the group work, to satisfy the culminating **experie- nce experience**, the student will work on an individual project supervised by the program director. For assessment purposes, a panel of 3-4 Finance faculty members will evaluate the written report and oral presentation of each project using the rubric provided in the assessment plan.

Plan Graduation Requirements

A minimum of 30 **credit hours credits** of program course work (excluding prerequisites) is required with an overall GPA of at least 3.00 for the course work that is part of the M. S. Quantitative Finance program. The student must submit all required forms to the Graduate College **and then as well as** apply for graduation up to two semesters prior to completing **his/her their** degree requirements.