


# Master of Science - Quantitative Finance

2 Graduate Program Change 2021-22

## I. General Information

The faculty member originating this proposal is to complete sections I and II.

TURN ON help text before starting this proposal by clicking  in the top right corner of the heading. You will need to turn on help text again after any actions that refresh the page including after saving proposals, importing information, or running impact reports.

IMPORT curriculum data from the Catalog by clicking  in the top left corner.

Do not make any changes to any information until the proposal has been launched in Step 4.

Department (s) (if Dual or Interdisciplinary please add all departments)\*

Finance

Degree/ Certificate Name\*

Master of Science - Quantitative Finance

Plan Code

Degree Type\*

Master of Science

Program Type\*

Master's

## II. Program Changes

FILL IN ONLY fields required marked with an \* after importing data. You will not be able to launch the proposal without completing required fields. Do not make proposed changes to the information that was imported until after the proposal has been launched in Step 4. Changes will only be tracked after the proposal is launched

Are you changing admission

Yes  No

requirements?\*

Are you changing course requirements?  Yes  No

Are you changing degree completion requirements?  Yes  No

Are you changing the primary instructional mode?  Yes  No

Are you changing program learning objectives?  Yes  No

Are you changing the culminating experience?  Yes  No

If not a Dual itself, is this program also available as part of a Dual-Degree offering?  Yes  No

Other (e.g. subplan titles,...)  Yes  No

If yes, describe changes to learning objectives:

**Provide a Brief Summary of Proposed Changes**

Change prerequisite courses – new language below:




- #4: Statistics (ECON 261)
- #5: Calculus (ECON 440/640, or MATH 181 and MATH 182).
- Make this line a new line item: Students who have not met the prerequisite requirements may be granted conditional admission at the discretion of the department.

**Provide a rationale for each proposed change**

After consulting with the related faculty members, the program decided to update the prerequisite requirements.

**Do not make any changes to any information until the proposal has been launched in Step 4.**

Follow these steps to change the program curriculum:

1. Click on  "View Curriculum Schema." Edit existing cores or click 'Add Core' and name your core (please use a comparable degree program in the current graduate catalog as a template). Edit or add any descriptive text (do not add courses until Step 2). Descriptive text is generally used in the following cores: Plan Description, Plan Admission Requirements, Plan Requirements, Plan Graduation Requirements.
2. There are two options for adding courses (see Step 3 to remove courses): "Add Course" and "Import Course." For courses already in the catalog, click on "Import Course" and find the courses needed. For new classes going through a Curriculog Approval Process click on "Add Course"-- a box will open asking you for the Prefix, Course Number and Course Title.
3. Click on  "View Curriculum Schema." Click on the area/header of the program where you would like to add courses. When you click on "Add Courses" it will bring up the list of courses available from Step 2. Select the courses you wish to add. For removing courses click on the  and proceed.

After you have launched proposal, update prospective curriculum here\*

## 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) Statistics (ECON 261) Calculus (ECON 440/640, or both MATH 181 and MATH 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 proficiency. Satisfactory GMAT or GRE scores. Preference is given to applicants with GMAT scores above 550 (or the GRE equivalent). Complete the Graduate College application online and submit a nonrefundable admission application fee. For information on Conditional Admission, please refer to the Graduate 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: 15

Complete 15 credits by completing all of the following courses:

|   |          |
|---|----------|
| <b>ECO 770 Econometrics I, Statistical Modeling</b> | <b>3</b> |
| <b>FIN 708 Advance Corporate Finance</b>            | <b>3</b> |
| <b>FIN 710 Investment Management</b>                | <b>3</b> |
| <b>FINQ 761 Corporate Finance Modeling</b>          | <b>3</b> |
| <b>FINQ 762 Investments Modeling</b>                | <b>3</b> |

### Elective Courses - Credits: 12

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

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

## Capstone Project - Credits: 3

FINQ 773 Capstone Project

3

### Degree Requirements

A maximum of 6 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 towards the group work, to satisfy the culminating 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 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 as well as apply for graduation up to two semesters prior to completing their degree requirements.

The [Degrees Directory](#) provides current and consistent degree information. Submission of this form indicates acknowledgment and understanding that every department is responsible creating and maintaining accurate and updated program information on the UNLV Degrees Directory.

If the changes included on this form impact the program handbook attach the updated handbook before submitting this form. If you need a Word version of the most recent handbook please email [GradCurriculum@unlv.edu](mailto:GradCurriculum@unlv.edu).

If new courses are added as placeholders within this proposal, new courses must be created using a Course Create form simultaneously to the process of this proposal.

**Degrees Directory  
Program Entry\***



Check this box to acknowledge the above statement.

**Changes will be  
applicable to\***



Current Students



New Students



Both Current and New Students

**If applicable to  
current students,  
changes are**



Mandatory




Optional

**Effective Date\***

Fall 2021

4. LAUNCH proposal by clicking  in the top left corner.

5. After launching the proposal, make all changes and fill in all additional fields.

6. Finish the launch of your proposal by clicking the icon  located in the Proposal Toolbox on left side at top. Make your decision, comment is optional, and click on "Make decision".

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.


### III. Department Vote Information

Note: This section is to be filled out by the Department Chair on behalf of the committee.

(The role has been assigned to the corresponding person on this step. If incorrect, please notify GradCurriculum@unlv.edu)

1. Review the proposal. Discuss and make appropriate revisions.

2. Fill in vote information.

3. Then go to the proposal toolbox at the top right side. Click on  and select the corresponding decision for the committee. This will enable the proposal to go to the next person on the workflow.

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.

If Dual or Interdisciplinary: add votes from all departments/colleges involved

(e.g. "Dpt A: .... / Dpt. B ....")

**Date faculty voted  
on proposal** 09/06/2019


**Result of vote** Yes (11); No (0)

**Manner of vote** online

## IV. Unit Vote Information

**Note:** This section is to be filled out by the College Committee Chair on behalf of the committee.

(The role has been assigned to the corresponding person on this step. If incorrect, please notify GradCurriculum@unlv.edu)

1. Review the proposal. Discuss and make appropriate revisions.
2. Fill in vote information.
3. Then go to the proposal toolbox at the top right side. Click on  and select the corresponding decision for the committee. This will enable the proposal to go to the next person on the workflow.

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.

**If Dual or Interdisciplinary:** add votes from all departments/colleges involved

(e.g. "College A: .... / College B ....")

**Date faculty voted on proposal** 4/11/2021

**Result of vote** 7-0-0

**Manner of vote** online

## V. Processing Notes (Graduate College/Registrar Use Only)

**Program Alerts (E.g. This program is no longer accepting applications)**

**PS Processing Notes**

**PS Processing Date**

**Initials**

**Acalog Processing Notes**

**Acalog Processing Date**

**Initials**





## Comments for Master of Science - Quantitative Finance

|   |   |
|---|---|
| <b>Curriculog</b>   | 5/7/2021 3:34 pm <a href="#">Reply</a>  |
| Emily Lin has approved this proposal on Graduate College Dean.  |   |
| <b>Curriculog</b>   | 5/7/2021 8:31 am <a href="#">Reply</a>  |
| Gregory Moody has approved this proposal on behalf of Graduate Programs Committee. See <a href="#">Graduate Programs Committee Agenda - May 4, 2021</a> for more information. |   |
| <b>Curriculog</b>   | 5/6/2021 4:36 pm <a href="#">Reply</a>  |
| Graduate Curriculum has approved this proposal on Graduate Programs Committee.  |   |
| <b>Curriculog</b>   | 4/11/2021 5:23 pm <a href="#">Reply</a> |
| Business Associate Dean has approved this proposal on School/College Associate Dean/ Dean.  |   |
| <b>Curriculog</b>   | 4/11/2021 5:22 pm <a href="#">Reply</a> |
| Business Associate Dean has approved this proposal on School/College Committee.   |   |
| <b>Curriculog</b>   | 4/7/2021 11:08 am <a href="#">Reply</a> |
| Ian McDonough has approved this proposal on School/College Committee.   |   |
| <b>Curriculog</b>   | 4/6/2021 10:59 am <a href="#">Reply</a> |
| MBA Director has approved this proposal on School/College Committee.  |   |
| <b>Gregory Moody</b>  | 4/5/2021 11:50 pm <a href="#">Reply</a> |
| Again, faculty vote is missing. Please provide this info.   |   |
| <b>Curriculog</b>   | 4/5/2021 11:50 pm <a href="#">Reply</a> |
| Gregory Moody has approved this proposal on School/College Committee.   |   |
| <b>Curriculog</b>   | 4/5/2021 2:02 pm <a href="#">Reply</a>  |
| Kimberly Charron has approved this proposal on School/College Committee.  |   |
| <b>Curriculog</b>   | 4/5/2021 12:58 pm <a href="#">Reply</a> |

Han-Fen Hu has approved this proposal on School/College Committee.

**Curriculog**

4/5/2021 10:45 am [Reply](#)

Jianxin Chi has approved this proposal on School/College Committee.

**Curriculog**

4/1/2021 10:41 pm [Reply](#)

Finance Chair has approved this proposal on Department Chair.

**Curriculog**

3/22/2021 3:53 pm [Reply](#)

Finance Graduate Program Director has approved this proposal on Graduate Coordinator.

**Curriculog**

3/22/2021 3:14 pm [Reply](#)

Graduate Curriculum has approved this proposal on Technical Review.

**Curriculog**

3/12/2021 10:20 am [Reply](#)

Jianxin Chi has approved this proposal on Originator.

**Curriculog**

3/12/2021 10:11 am [Reply](#)

Jianxin Chi has launched this proposal.

**Curriculog**

3/12/2021 10:08 am [Reply](#)

Jianxin Chi imported from the map 2021-2022 Working Graduate Catalog into the following proposal fields: I. General Information: Degree/ Certificate Name, I. General Information: Degree Type, I. General Information: Program Type, II. Program Changes: After you have launched proposal, update prospective curriculum here.