MINOR IN FINANCIAL COMPUTATION AND MODELING

Program Learning Outcomes for the Minor in Financial Computation and Modeling

Upon completing the minor in Financial Computation and Modeling, students will be able to:

1. Demonstrate knowledge of statistical techniques and methods and how to choose and apply appropriate methods to questions or problems in the field of finance.
2. Understand the basic concepts of Economic Theory and how they apply to financial markets as well as how financial markets impact global economies.
3. Demonstrate an understanding of basic financial databases and the ability to use technologies, like R and Excel, to model and solve financial problems.
4. Understand core quantitative modeling concepts and demonstrate key skills necessary for working in the field of finance and investing.
5. Demonstrate the ability to understand, interpret, and critically evaluate empirical financial studies and investment strategies.

Requirements for the Minor in Financial Computation and Modeling

Students pursuing the minor in Financial Computation and Modeling must complete:

- A minimum of 6 courses (19 credit hours) to satisfy minor requirements.
- A minimum of 5 courses (16 credit hours) at the 300-level or above.

The courses listed below satisfy the requirements for this minor. In certain instances, courses not on this official list may be substituted upon approval of the minor's academic advisor (or official certifier). Students and their academic advisors should identify and clearly document the courses to be taken.

Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td></td>
<td></td>
<td>Total Credit Hours Required for the Minor in Financial Computation and Modeling</td>
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Minor Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td></td>
<td>Required Courses</td>
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</tr>
<tr>
<td>ECON 100</td>
<td>PRINCIPLES OF ECONOMICS</td>
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<tr>
<td>STAT 310 / ECON 307</td>
<td>PROBABILITY AND STATISTICS</td>
<td>3</td>
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<tr>
<td>ECON 310 / STAT 376</td>
<td>ECONOMETRICS</td>
<td>4</td>
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<tr>
<td>or STAT 410</td>
<td>LINEAR REGRESSION</td>
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Elective Requirements

Select 3 courses from the following 4 groups:

Group I

- ECON 418 ECONOMIC FORECASTING
- or STAT 421 APPLIED TIME SERIES AND FORECASTING

Group II

- ECON 449 PRINCIPLES OF FINANCIAL ENGINEERING
- or STAT 449 QUANTITATIVE FINANCIAL RISK MANAGEMENT

Group III

- STAT 486 MARKET MODELS

Group IV

- BUSI 343 FINANCIAL MANAGEMENT
- or ECON 343 CORPORATE FINANCE
- or ECON 355 FINANCIAL MARKETS
- or ECON 443 FINANCIAL ECONOMICS
- or ECON 455 MONEY AND BANKING
- or STAT 482 QUANTITATIVE FINANCIAL ANALYTICS

Total Credit Hours 19

Footnotes and Additional Information

1. No more than 1 course can be taken from each group to satisfy the Elective requirements.

Policies for the Minor in Financial Computation and Modeling

Program Restrictions and Exclusions

Students pursuing the minor in Financial Computation and Modeling should be aware of the following program restriction:

- As noted in Majors, Minors, and Certificates, i.) students may declare a minor only after they have first declared a major, and ii.) students may not major and minor in the same subject.

Transfer Credit

For Rice University's policy regarding transfer credit, see Transfer Credit. Some departments and programs have additional restrictions on transfer credit. The Office of Academic Advising maintains the university's official list of transfer credit advisors on their website: http://oaa.rice.edu. Students are encouraged to meet with their academic program's transfer credit advisor when considering transfer credit possibilities.

Program Transfer Credit Guidelines

Students pursuing the minor in Financial Computation and Modeling should be aware of the following program-specific transfer credit guidelines:

- Request for transfer credit will be considered by the program director (and/or the program's official transfer credit advisor) on an individual case-by-case basis.

For additional information, please see the Undergraduate Resources page on the Center for Computational Finance and Economic Systems website.
Opportunities for the Minor in Financial Computation and Modeling

Academic Honors
The university recognizes academic excellence achieved over an undergraduate's academic history at Rice. For information on university honors, please see Latin Honors (ga.rice.edu/undergraduate-students/honors-distinctions/university) (summa cum laude, magna cum laude, and cum laude) and Distinction in Research and Creative Work (ga.rice.edu/undergraduate-students/honors-distinctions/university). Some departments have department-specific Honors awards or designations.

Finance Seminar
Students pursuing the FCAM minor have the opportunity to participate in STAT 499 Computational Finance Seminar for 1 credit hour. Students are also encouraged to take part in the annual Eubank Conference on Real World Markets.

For additional information, please see the Undergraduate Resources page on the Center for Computational Finance and Economic Systems website: http://www.cofes-rice.org/academic-programs/undergraduate/.