FINANCIAL COMPUTATION AND MODELING

Contact Information

Financial Computation and Modeling
https://cofes.rice.edu/
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The interdisciplinary Financial Computation and Modeling (FCAM) program is offered through a collaboration of the Departments of Economics (https://ga.rice.edu/programs-study/departments-programs/social-sciences/economics/#header) and Statistics (https://ga.rice.edu/programs-study/departments-programs/engineering/statistics/#text). The FCAM minor consists of six courses and a one credit hour seminar course, focusing on the strategies and computational technologies used in the financial industry. The minor is designed for those undergraduate students with strong computational skills and an interest in finance. Many students pursuing the FCAM minor enter careers in the financial industry, either immediately after completion of their undergraduate studies or after graduate studies. Students completing the FCAM minor will understand the complexities of financial markets and their role in and impact on world economies.

The basic tools component of the FCAM curriculum will equip students with the economic, probability, and statistical tools necessary to pursue the advanced analytical courses. In the advanced courses, students will be exposed to state-of-the-art models and methodologies based on long-standing assumptions about the behavior of financial markets. They also will be exposed to alternative views of market behavior and investment strategies. The goal is to educate students to question basic assumptions as well as utilize and understand technologies based on these important assumptions. In the financial industry, a large suite of solutions are implemented and continually enhanced. A goal of the FCAM program is to train leaders in this industry who not only will understand the financial technologies but also will understand the role, impact, and potential pitfalls of these technologies.

Minor

- Minor in Financial Computation and Modeling (https://ga.rice.edu/programs-study/departments-programs/engineering/financial-computation-modeling/financial-computation-modeling-minor/)

Financial Computation and Modeling does not currently offer an academic program at the graduate level.

Department Chair, Economics

Flávio Cunha

Department Chair, Statistics

Huixia Judy Wang

Program Director

Katherine Bennett Ensor, *Statistics*

Steering Committee and Undergraduate Advisors

Katherine Bennett Ensor, *Statistics*
Mahmoud A. El-Gamal, *Economics*
Michael Jackson, *Statistics*

For Rice University degree-granting programs:
To view the list of official course offerings, please see Rice's Course Catalog (https://courses.rice.edu/admweb/!SWKSCAT.cat?p_action=cata).
To view the most recent semester's course schedule, please see Rice's Course Schedule (https://courses.rice.edu/admweb/!SWKSCAT.cat).

Description and Code Legend

Note: *Internally, the university uses the following descriptions, codes, and abbreviations for this academic program. The following is a quick reference:*

Course Catalog/Schedule

- Course offerings/subject codes: Courses from various subjects may apply towards this program

Home School Description and Code

- Engineering and Computing: EN

Home Department (or Program) Description and Code

- Financial Computation and Modeling: FCAM

Undergraduate Minor Description and Code

- Minor in Financial Computation and Modeling: FCAM

CIP Code and Description[1]

- **FCAM** Minor: CIP Code/Title: 27.*0305 - Financial Mathematics*

1 Classification of Instructional Programs (CIP) 2020 Codes and Descriptions from the National Center for Education Statistics: https://nces.ed.gov/ipeds/cipcode/.