

FINANCIAL COMPUTING (ADV CERT)

15 credits

NYSED 33509

With the surge of high frequency trading and complex investing models, more and more sophisticated computing techniques and skills are required in the finance industry besides traditional quantitative models. For example, strong C++ based software development and machine-learning skills are essential for a financial engineer in automated trading.

To meet such an urgent strong demand for knowledge in advanced financial computing, the Department of Computer and Information Sciences in the Graduate School of Arts and Sciences and the Gabelli School of Business have partnered to offer an advanced certificate in financial computing. This certificate program aims at training and sharpening students' computing skills in handling real world large-scale financial data in addition to financial software development. The state-of-the-art, rigorous, and personalized coursework/projects guarantee students' future success in the job market. Our alumni have won high-salary "Quant" and financial data analytics positions in Wall Street.

The audiences of the financial computing certificate program are future "Quant" or business analytics professionals. We especially welcome students enrolled in the following programs or with the equivalent backgrounds to apply for this certificate program:

- MSQF (Master of Science in Quantitative Finance) in Graduate School of Business Administration
- MSCS (Master of Science in Computer Science) in Graduate School of Arts and Sciences
- MSBA (Master of Science in Business Analytics) in Graduate School of Business Administration
- MSGF (Master of Global Finance) in Graduate School of Business Administration
- Other qualified graduate students.

Please note: The Advanced Certificate in Financial Computing is available only to current Fordham University students.

Requirements

The advanced certificate in financial computing consists of 15 credits including a practicum: Projects and Internships in Financial Computing. Required courses may be substituted for equivalent coursework with the approval of an advisor.

Fall		Credits
CISC 6950		3
QFGB 8915	Introduction to Stochastic Calculus	2
QFGB 8925	Simulation Applications	2
	Credits	7
Spring		
QFGB 8943	Large-Scale Data Modeling	2
CISC 5790	Data Mining	3

Project and Internship in Financial Computing ¹	3
Credits	8
Total Credits	15

¹ This course is taken as either CISC 8999 or QFGB 8999.

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