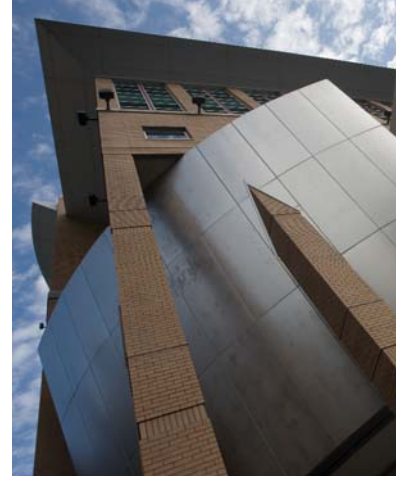


Quantitative Finance



In today's competitive marketplace, with an ever-evolving economic landscape, it is essential to equip future business leaders with the tools necessary to succeed. Professionals are expected to understand the business process and be able to contribute to the constant transformation of the industry. Organizations are looking for innovative and forward-thinking individuals who have a proven foundation in the business fundamentals of today and can anticipate those of tomorrow.

The nation's first four-year undergraduate program of its kind, Stevens Institute of Technology's **B.S. in Quantitative Finance** provides students with the skill levels equivalent to what would be expected from the graduate of a premier masters degree program in financial engineering. A relatively young field, Quantitative Finance is just 10-15 years old and until now has been offered exclusively at the Master's and PhD level. Stevens' revolutionary undergraduate program is designed specifically for students wishing to apply scientific and engineering methods and techniques to transform financial markets.

What to Expect

Our rigorous program will ensure that you begin your professional career not only strong in technique, but also with a solid conceptual understanding of the economic substance of capital market transactions. Your studies will encompass approximately 140 credits over four years, and are fused with practical experience and access to leading financial organizations.

You will be exposed to a strong quantitative component, including two years of calculus and a supplementary year of advanced financial mathematics. In addition, you will participate in Stevens' distinctive "Spine" curriculum and "Senior Design" project. Every semester you will take a clinically-oriented investment strategy seminar, building progressively more complex investment portfolios over several years, effectively creating a unifying spine that is woven throughout the program. Finally you will complete a Senior Design project—the development of a working solution for a real-world operating scenario drawn from the financial sector. Examples include the design of a hedge fund or a computer trading platform.

The Stevens Advantage

As a student in the Quantitative Finance program at Stevens, you will have access to many unique educational and real-life advantages, including

- ▶ A first-class curriculum of science, math, computer science, and engineering courses, including our graduate program in Financial Engineering
- ▶ Our unparalleled location just 20 minutes from Wall Street allowing for essential real-world experience, access to internships and "clinical" practitioners working in the world's financial center
- ▶ Resource-sharing with Stevens' well-established innovative Business & Technology Program, a model for a 21st-century high-tech undergraduate business degree



The Business Core

At the core of the program, you and your classmates will study business fundamentals, including economics, finance, calculus, probability and statistics, accounting, marketing, research, corporate finance, management, business law, ethics, and entrepreneurship. In every instance of learning, you will examine case studies, hear from guest lecturers, and participate in laboratory settings to demonstrate and develop the critical thinking skills needed to solve complex business problems. You will graduate with the comprehensive problem-solving skills so desperately sought after by businesses who want to succeed in today's competitive and technology-oriented environment.

Entrepreneurship

A unique feature of a Stevens education is Technogenesis, our educational philosophy where students team up with faculty and businesses to bring new ideas and new technologies to the marketplace. Immersed in this environment, you will learn what it takes to transfer an idea from the conceptual stage and put it into play at solving the world's greatest challenges. This hands-on experience is unique to

Stevens, and is one of the primary reasons Stevens was named in the top 20 "Most Entrepreneurial Campuses" in the nation by *The Princeton Review* and *Forbes*.

Internships

Business students at Stevens are extremely successful in obtaining summer internships with many of the world's leading companies. Our location across the Hudson from New York City puts you in the hub of world commerce, and our Office of Career Development has relationships with hundreds of companies who recruit Stevens students because they know your unique experience will help them achieve their corporate goals.

What is Quantitative Finance?

As the financial markets are transforming, the applications of Quantitative Finance include:

- ▶ The use of mathematical models to support more accurate asset pricing, stock selection, asset allocation, and investment portfolio analysis
- ▶ Computerized trading replacing the traditional "trading pit"
- ▶ The quantification of statistical parameters, such as volatility and correlation of returns, leading to new ways of assessing risk and designing effective hedging strategies

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