



## Department of Finance and Risk Engineering

# NYU·poly

POLYTECHNIC INSTITUTE OF NYU

“Financial Engineering is a profession that bridges theoretical finance and financial practice. As a result, it spans the many occupations prevalent in financial services and adjacent industries. Traders, Treasurers, CFO’s, Investment Advisers, Hedge Funds Managers, Insurers and Risk Managers, Government Regulators, et al., all demand financial engineers in both their back and front offices.”

—Professor Charles Tapiero  
Topfer Chair and Distinguished  
Professor of Financial Engineering

### FOR MORE INFORMATION PLEASE CONTACT:

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### Master of Science in Financial Engineering

Financial Engineering is a profession that bridges theoretical finance and financial practice. As a result, it spans the many occupations prevalent in financial services and adjacent industries. Traders, Treasurers, CFO’s, Investment Advisers, Hedge Funds Managers, Insurers and Risk Managers, Government Regulators, et al., all demand financial engineers in both their back and front offices.

The Polytechnic Institute of NYU’s Master of Science in Financial Engineering in the Department of Finance and Risk Engineering has designed a program that provides the skills required to operate in today’s cutting-edge financial services and their associated professions. The program is comprehensive, but also focused on three separate tracks: Corporate Finance and Financial Markets, Computational Finance, and finally, Financial Information Services and Technology. In addition, an actuarial Science track will be added shortly. The program, delivering courses on Wall Street and at the Brooklyn Campus, provides an opportunity to experience the intense life of finance emanating from the NYC financial district. It is a concentrated program allowing the student to obtain a degree in one year, with courses delivered in three semesters: Fall, Spring, and Summer.

Graduates of the Financial Markets and Corporate Finance and the Computational Finance Tracks are expected to seek positions in financial risk management groups, on trading and arbitrage desks, in product structuring groups, in derivatives groups, in investment banking departments, in asset management firms, and in the information technology firms that support the trading operations of financial institutions. In addition, the Computational Finance Track provides opportunities to pursue academic and applied business research in cutting-edge investment science and finance.

Graduates of the Financial Information Services and Technology Track are prized as information technologists who are both finance savvy and at the same time actively involved in the development and implementation of the entire spectrum of software applications, databases and networks, and investment and trading platforms used in modern financial services firms. Graduates are expected to seek positions in commercial banks, investment banks, thrifts, insurance companies, investment companies, pension funds, finance companies, consulting firms, energy marketing firms, accounting firms with consultancy practices, and so forth.

NYU-Poly’s Master of Science in Financial Engineering is a 33-credit program that brings together three key areas: finance and related business disciplines, quantitative analysis (mathematics and statistics), and information technology (telecommunications and computer science). NYU-Poly has long been recognized as a leader in Technology, Information and Computer Technology, and Applied Mathematics. Through its Finance and Risk Engineering Programs, NYU-Poly has positioned itself to be a leader in Financial Engineering with a program that bridges theory and practice by emphasizing excellence in both applied research and in developing a curriculum. This allows students a first rate education delivered by both theoretically minded academics as well as practitioners. To these ends, developing a versatile faculty composed of international professors, associates, and hands-on adjuncts to meet the challenges of such an education has further strengthened the program’s components. In addition, financial labs, essential financial services (such as Bloomberg, investment and trading platforms) are accessible to students in order to support research in financial technology and innovation. Research Centers focused on Risk Engineering and Financial Technology are also available.

The Financial Engineering program was the first to be certified by the International Association of Financial Engineers (IAFE).

### Specialized M.S. tracks

Financial Markets and Corporate Finance; Computational Finance; Financial Information Services and Technology; In addition, an actuarial Science track will be added shortly.

### Advanced Certificates

Financial Engineering (MSFE); Financial Information Services and Technology; Risk Management





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### SELECT INTERNATIONAL FACULTY ASSOCIATES

Alain Bensoussan, China  
 Fabrizio Ruggieri, Italy  
 Tyrone Duncan, United States  
 Konstantin Kogan, Israel  
 W.K. Li, Hong Kong  
 Bertrand Munier, France  
 Pierre Vallois, France  
 Aime Scannavino, France  
 Lorne Switzer, Canada  
 Ron Kenett, Israel and Italy  
 Claude Pondhaven, France

### SELECT ADJUNCT FACULTY

Sassan Alizade  
 Kimberly Swain  
 Roy Freedman  
 Ron Slivka  
 Vladimir Makarov  
 Lucas Bernard  
 Andrew Kalotay  
 Rohan Douglas  
 Maureen T. Koetz  
 Rohan Douglas  
 Steven Mandel  
 Jerzy Pawlowski  
 Richard Van Slyke  
 Edward Dean Weinberger  
 Raphale Chappe  
 Charles Stone  
 Peter Cai  
 Paul Biederman  
 Robert Bilosi  
 Thomas M. Hutchinson  
 Ingrid Marshall  
 Anthony Pepennella  
 Ronald T. Slivka

### FULL-TIME FACULTY MEMBERS



**CHARLES S. TAPIERO**

*Topfer Chair and Distinguished Professor of Financial Engineering & Technology Management, Department Chair*

B.AppSc, Electrical Engineering, Polytechnique (Montreal); MBA, PhD, New York University  
 Professor Tapiero is a recognized leader in risk engineering and in insurance-finance. He has published 13 books and over 350 papers on a broad range of issues spanning risk finance management, stochastic modeling, and applied stochastic control in risk engineering, insurance, technology, and other areas.



**NASSIM NICOLAS TALEB**

Nassim Nicolas Taleb, the Distinguished Professor of Risk Engineering, is an honored world leader on many issues that relate to market defaults. He is also the author of the best seller *The Black Swan: The Impact of the Highly Improbable* (2007), in addition to his acclaimed books, *Foiled by Randomness: The Hidden Role of Chance in Life* (2001, 2005) and *Markets and Dynamic Hedging*. Selected Honors include: Power 30 Wall Street Journal/Smart Money (2007), Frost & Sullivan Visionary of the Year (2008), and Derivatives Strategy Hall of Fame (2000). *The London Times* called him "a giant of Mediterranean thought ... Now the hottest thinker in the world."



**PHILIP MAYMIN**

Philip Maymin is an Assistant Professor of Finance and Risk Engineering with a PhD from the University of Chicago on Behavioral Finance. He is an experienced hedge fund and portfolio manager, as well an award-winning journalist and Policy Scholar for the Yankee Institute for Public Policy.



**BARRY BLECHERMAN**

Barry Blecherman is Deputy Department Chair and Industry Associate Professor of Finance and Risk Engineering with an MBA and PhD from the Wharton School, University of Pennsylvania. Blecherman is a Financial Economist with a broad interest in contracts theories, behavioral finance, and games.



**FRED NOVOMESTKY**

Fred Novomestky is an Industry Professor of Finance and Risk Engineering with a PhD from Polytechnic Institute of NYU. He is both a researcher and a practitioner in Quant-Finance.

**ERICH E. KUNHARDT**



Erich E. Kunhardt, a Polytechnic University alumnus and former faculty member, is both the University provost and a Professor of Physics and Risk Engineering (part-time).

