Finance doctoral program provides students with rigorous training in finance, economics, mathematics and statistics. These tools, plus opportunities for supervised independent research, enable students to make their own contributions to the understanding of financial markets and institutions that lead to productive research careers.

The Finance doctoral program trains students to apply empirical methods and theoretical tools to advance our understanding of how financial markets and institutions work, and how they may contribute to economic development.

The program aims to produce scholars who develop rigorous and creative research in finance and economics. Students are exposed to a variety of research methods in their coursework, and interact closely with faculty as they develop their own research projects. A distinctive characteristic of our program is its close ties with the Department of Economics, which are fostered by joint seminars, mutual advising of students, and frequent collaboration on research projects. The academic interests of the finance faculty also span a very broad range of topics in finance, from the role of culture and trust in financial markets to the identification of jump risk premiums. The breadth of knowledge and interests of our faculty create an environment that encourages students to conduct advanced research in novel aspects of the field.

**Degrees Offered**

- Finance PhD ([https://catalogs.northwestern.edu/tgs/finance/finance-phd](https://catalogs.northwestern.edu/tgs/finance/finance-phd))

**Finance Courses**

**FINC 499-0 Independent Study (1 Unit)**
Students who have established superior records and wish to study some significant phase of finance in more depth than is provided in regular courses may register for independent study with a selected instructor. Permission of the instructor and department are required.

**FINC 520-1 Time Series Analysis (1 Unit)**
The specification, estimation, and testing of dynamic models involving economic time series present a host of unique statistical problems requiring the use of specialized inference procedures. This course provides an overview of the most important of them. The focus will be on results most relevant for applications, with the various econometric techniques illustrated through problems in both macroeconomics and finance.

**FINC 585-1 Asset Pricing I (1 Unit)**
A doctoral-level course that offers an in-depth introduction to competitive asset pricing theory: arbitrage pricing, equilibrium pricing and optimal consumption/portfolio choice. Models are developed for a finite information tree, but from an advanced perspective that motivates and builds intuition toward continuous-time modeling.

**FINC 585-2 Asset Pricing II (1 Unit)**
This course covers recent developments in asset pricing theory, placing emphasis on the link between financial markets and the real economy. The topics covered include: models of portfolio choice, general equilibrium models of risk and return, and models with financial frictions.

**FINC 585-3 Asset Pricing III (1 Unit)**
This course covers topics in the empirical asset pricing literature with an emphasis on recent developments. Topics include: Latent factor models; GMM theory and applications in finance; return predictability; performance evaluation; affine asset pricing models; Estimation of asset risk premia; estimation of volatility and jump risks from low/high frequency data; empirical derivatives pricing using parametric and nonparametric methods.

**FINC 586-1 Corporate Finance I (1 Unit)**
This course introduces students to theories of corporate financing and investment decisions; optimal financial contracting and security design; financial intermediation; and financial crises. Throughout we study the effects of incentive problems and asymmetric information.

**FINC 586-2 Corporate Finance II (1 Unit)**
This course provides a theoretical and empirical treatment of major topics in empirical corporate finance, including: investment decisions, capital structure, corporate governance, and law and finance.

**FINC 586-3 Corporate Finance III (1 Unit)**
This course provides a theoretical and empirical treatment of major topics in empirical corporate finance, including financial contracting; banking, securitization, and financial regulation; household finance and macroeconomics; entrepreneurship and venture capital.

**FINC 590-0 Research (3 Units)**
Independent investigation of selected problems pertaining to thesis or dissertation. May be repeated for credit.