

# Financial Engineering Minor

Financial Engineering is a multidisciplinary field that emphasizes complex modeling and analysis of new financial economic instruments to manage risk, create strategic business opportunities, and access new markets. Especially in today's highly leveraged domestic markets and fluctuating global business environment, successful management of market, credit, and production risk is essential yet increasingly difficult. This minor equips students with the basic analytical tools to help a business assess and manage financial risks, and can be used to complement a range of majors.

The financial engineering minor is a joint program of the Department of Mechanical and Industrial Engineering and the Department of Agricultural Economics and Economics.

## Required Prerequisite Courses

ECNS 251IS	Honors Economics *	4
M 171Q	Calculus I	4
M 172	Calculus II	4
M 221	Introduction to Linear Algebra	3

\* May substitute ECNS 202 Principles of Macroeconomics and ECNS 204IS Microeconomics

## Minor Courses

ECNS 301	Intermediate Micro with Calc	3
ECNS 313	Money and Banking	3
EFIN 101	Introduction to Financial Engineering	1
EFIN 301	Engineering & Economic Financial Management I	3
EFIN 401	Engineering & Economic Financial Management II	3
EIND 354	Engineering Probability and Statistics I	3
EIND 364	Principles of Operations Research I	3
Choose one of the following:		3
ECNS 345	Econ Org, Finance & Credit	
EGEN 325	Engineering Economic Analysis	
Choose one of the following:		3
ECNS 309	Managerial Economics	
ECNS 406	Industrial Organization	
ECNS 461	Financial Econometrics	
Choose one of the following:		3
EIND 457	Regres & Multivar Analysis	
EIND 464	Prin of Operations Research II	
EIND 468	Managerial Forecasting & Decision Analysis	