

SUGGESTED ELECTIVES  
FALL 2009

*These courses are suggested and have been popular for MSEMS, MSIE and MSOR students. If the course is your Program's core course, it will not be counted as an elective.*

*This is not an exhaustive list. See Directory of Classes (<http://www.columbia.edu/cu/bulletin/uwb/>) for schedule and additional courses. Note that you must satisfy the pre-requisite requirements of each course prior to registration.*

**Industrial Engineering and Operations Research**

---

CSOR E4231 Analysis of Algorithms I  
IEOR E4000 Production Management  
IEOR E4201 Engineering of Management I  
IEOR E4207 Human Factors: Performance  
IEME E4310 The Manufacturing Enterprise  
IEOR E4307 Industrial Forecasting  
IEOR E4403 Advanced Engineering and Corporate Economics  
IEOR E4404 Simulation  
IEOR E4407 Game Theoretic Models of Operation  
IEOR E4620 Pricing Models for Financial Engineering  
IEOR E4700 Intro to Financial Engineering  
IEOR E4705 Studies in Operations Research  
IEOR E4720 Commodity Derivatives  
IEOR E4724 Hedge Funds  
IEOR E4726 Inflation Derivatives  
IEOR E4728 Guide to Financial Industry for the Quantitative Professionals  
IEOR E4729 Structured Products  
IEOR E4998 Managing Technological Innovation

**Economics**

---

ECON W4213 Advanced Macroeconomics  
ECON W4228 Urban Economics  
ECON G4301 Economic Growth and Development I  
ECON G4301 Economic Development of Japan  
ECON W4412 Advanced Econometrics  
ECON G4421 Seminar: Problems of Emerging Markets Economy  
ECON W4465 Public Economics  
ECON W4500 International Trade  
ECON G4526 Economic Reforms – Transition Economy  
ECON W4750 Economics of the Environment  
ECON W4750 Globalization and Its Risks  
All 6000 and above level courses

## **Business**

Students must bid for these courses via IEOR Portal. Results of the bidding will be announced via email by Monday, September 7, 2009. For course descriptions, please see <http://www4.gsb.columbia.edu/courses>, under "MBA Courses: Fall 2009"

---

BUEC B8299 New Developments in Energy Markets  
DRAN B8899 Applied Regression Analysis  
FINC B6302 Capital Markets & Investments  
FINC B8311 Options Markets  
FINC B8314 Real Estate Finance  
FINC B8358 International Banking: Value and Risk  
FINC B9301 Hedge Fund Investment & Selection  
FINC B9301 International Portfolio Management  
FINC B9301 Banking & the Money Markets  
INBU B8599 Asian Financial Markets  
MRKT B6690 Marketing the Arts, Culture & Entertainment  
MRKT B8601 Strategic Consumer Insights  
MRKT B8699 Entrepreneurial Selling  
MRKT B8699 Sales Management  
MRKT B8699 Media Metrics, Analytics & Economics  
MRKT B8699 Entrepreneurial Selling  
MRKT B8699 Marketing Channels  
MRKT B8699 Systematic Creativity in Business  
MRKT B8699 Customer Centricity  
MRKT B8699 Media Marketing and Entrepreneurship  
MRKT B9601 Retailing Leadership  
OPMN B8811 Service Operations Management  
OPMN B8899 Pricing & Revenue Optimization  
OPMN B9811 Healthcare Industry in the 21st Century

## **International and Public Affairs**

Students must bid for these courses via IEOR Portal. Results of the bidding will be announced via email by Monday, September 7, 2009. For course descriptions, please see <http://sipa.columbia.edu/academics/courses/print-fall.html>.

---

INAF U6016 Cost-Benefit Analysis  
INAF U6017 International Trade  
INAF U6018 International Finance and Monetary Theory  
INAF U6021 European Banking Post Crisis  
INAF U6045 International Capital Markets  
INAF U6060 International Energy Systems and Business Structures  
INAF U6301 Corporate Finance  
INAF U8085 Topics in Corporate Finance I

## **Mathematics**

---

MATH W4041 Introduction to Modern Algebra I  
MATH W4042 Introduction to Modern Algebra II  
MATH W4043 Algebraic Number Theory  
MATH W4044 Representations of Finite Groups  
MATH V4051 Topology  
MATH W4061 Introduction to Modern Analysis I  
MATH W4062 Introduction to Modern Analysis II  
MATH W4071 Intro to Math of Finance  
MATH G4073 Quantitative Methods in Investment Management  
MATH G4075 Mathematical Methods – Financial Price Analysis  
MATH G4151 Analysis & Probability I  
MATH G6209 Partial Differential Equations  
MATH G6428 Topics in Partial Differential Equations

## **Statistics**

---

STAT W4201 Advanced Data Analysis  
STAT W4240 Data Mining  
STAT W4315 Linear Regression Models  
STAT G4437 Time Series Analysis  
STAT W4440 Linear Regression/Time Series Methods

All 6000 and above level courses\*