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](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](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 G437 Time Series Analysis
STAT W4440 Linear Regression/Time Series Methods

All 6000 and above level courses*