SUGGESTED ELECTIVES FOR MS CANDIDATES
SPRING 2008

These courses are suggested for MSEMS, MSIE, and MSOR students.
Courses marked with a (*) are appropriate for MSFE students.
This is not an exhaustive list: see CU Directory of Classes for schedule and other courses in
Applied Mathematics, Computer Science, Civil Engineering, Electrical Engineering, etc.

Industrial Engineering and Operations Research
ECIE W4280 Corporate Finance
IEOR E4001 Design and Management of Production and Service Systems
IEOR E4202 Engineering of Management II
IEOR E4208 Seminar in Human Factors Design
IEOR E4210 Supply Chain Management*
IEOR E4404 Simulation (required for OR)
IEOR E4405 Production Scheduling
IEOR E4406 Facilities Location, Routing and Network Design
IEOR E4409 Industrial Information Systems
IEOR E4412 Quality Control and Management
IEOR E4416 Capacity Planning: Models, Algorithms and Applications
IEOR E4500 Applications Programming for Financial Engineering*
IEOR E4600 Applied Integer Programming
IEOR E4601 Dynamic Pricing and Revenue Management*
IEOR E4602 Quantitative Risk Management*
IEOR E4700 Introduction to Financial Engineering
IEOR E4708 Important Papers in Financial Engineering*
IEOR E4709 Data Analysis for Financial Engineering (required for FE)
IEOR E4710 Term Structures Models*
IEOR E4718 Introduction to the Implied Volatility Smile*
IEOR E4726 Topics in Quant Finance: Experimental Finance*
IEOR E4727 Topics in Quant Finance: Quantitative Portfolio Management*
IEOR E4729 Topics in Quant Finance: Structured Products: Pricing Models & Risk Management*
IEOR E4731 Credit Risk and Credit Derivatives*
IEOR E4998 Managing Technological Innovation
All 6000 and above level courses*

School of International and Public Affairs
To enroll, you must obtain your advisor’s signature on an ADD/DROP form. Bring the signed form to 6th Floor of IAB on Thursday, January 17, 2008.

U6014 Accounting and Finance (Those who have taken W4261 cannot take this course)
U6016 Cost Benefit Analysis
U6017 International Trade
U6018 International Finance and Monetary Theory
U6022 Economics of Finance*
U6039 International Banking*
U6040 International Energy Project Development and Finance
U6045 International Capital Markets*
U6054 Petroleum Markets and Trading*
U6057 Electricity Markets*
U6238 Environmental Finance*
U6301 Corporate Finance
U8080 Advanced Structured Credit*

**Economics**

ECON W4020 Economics of Uncertainty and Information
ECON W4211 Advanced Microeconomics
ECON W4412 Advanced Econometrics
ECON W4500 International Trade
ECON G4527 Economic Organization and Development of China
ECON W4911 Seminar in Microeconomic Theory
ECON W4913 Seminar in Macroeconomic Theory
ECON W4918 Seminar in Econometrics
ECON G6212 Microeconomic Analysis II*
ECON G6216 Macroeconomic Analysis II*
ECON G6222 Advanced Macroeconomic Analysis II*
ECON G6255 Industrial Organization III*
ECON G6412 Introduction to Econometrics II*
ECON G6428 Topics in Econometrics II*
ECON G6904 International Monetary Transactions*

**Mathematics**

MATH W4041 Introduction to Modern Algebra I
MATH W4042 Introduction to Modern Algebra II
MATH V4043 Algebraic Number Theory
MATH W4045 Algebraic Curves
MATH W4062 Introduction to Modern Analysis
MATH W4081 Introduction to Differentiable Manifolds
MATH G4152 Analysis II
MATH G4176 Complex Analysis & Riemann Surface
MATH G6071 Numerical Methods in Finance*
MATH G6210 Partial Differential Equations*
MATH G8210 Math Finance Practitioners Seminar*

**Statistics**

STAT G4201 Advanced Data Analysis
STAT G4220 Analysis of Categorical Data
STAT G4290 Statistical Methods in Finance* (Cannot take both STAT G4290 and IEOR E4709)
STAT G4315 Linear Regression Models*
STAT G4325 Generalized Linear Models
STAT G4437 Time Series Analysis*
STAT G4820 Actuarial Models*
STAT G6102 Statistical Modeling and Data Analysis II*
STAT G6505 Stochastic Methods in Finance*
STAT G7010 Topics in Risk*
6000 and above level courses*