



MS ADVISING TOWN HALL 11/21/16



AGENDA

- Review of Core Requirements
- Spring Electives
- Registration
- Looking ahead: Summer and Fall '17
- Employer feedback
- Q & A

CORE: MSOR PROGRAM

COURSES:

1. SIEO W4150 Probability & Statistics*
 2. IEOR E4004 Deterministic Models*
 3. IEOR E4106 Stochastic Models
 4. IEOR E4404 Simulation
- Please remember at least 6 courses (18 credits) must be in the IEOR department (IEOR, SIEO, IEME, CSOR designation).
 - IEOR E4004 and SIEO W4150 must be completed during first term of study.

CORE: MSIE PROGRAM

COURSES:

1. SIEO W4150 Probability & Statistics
 2. IEOR E4000 Production Management
 3. IEOR E4004 Deterministic Models
 4. IEOR E4106 Stochastic Models
- Please remember at least 6 courses (18 credits) must be in the IEOR department (IEOR, SIEO, IEME, CSOR designation).
 - IEOR E4000, 4004 and SIEO W4150 must be completed during first term of study.



CORE: MS&E PROGRAM

COURSES:

1. IEOR E4004 Deterministic Models
 2. IEOR E4111 Operations Consulting
 3. IEOR E4101 Probability Models for MS&E
 4. **IEOR E4102 Stochastic Models for MS&E**
- Please remember at least 6 courses (18 credits) must be in the IEOR department (IEOR, SIEO, IEME, CSOR designation).
 - IEOR E4111, 4004 and 4101 must be completed during first term of study.



MS&E DRO SEMI CORE

9 pts total are required

DROM B8108-060 Supply Chain Management*

DROM B8122-060 Game-Theoretic Business Strategy*

DROM B8123-060 Demand and Supply Analytics*

DROM B8510-060 Managerial Negotiations*

IEOR E4650 Business Analytics

*MSOR & MSIE students may add (1) in January; they are only opened to MSEs in November.

MS&E MANAGEMENT SEMI CORE

9 pts total, at least (1) from Management & (1) from Analysis

1. ECON W4280 Corporate Finance
2. FINC B8307-004 Advanced Corporate Finance
3. IEOR E4412 Quality Control and Management
4. IEOR E4505 Operations Research in Public Policy
5. IEOR E4510 Project Management
6. IEOR E4560 Lean Launch Pad
7. IEOR E4998 Managing Tech Innovation & Entrepreneurship

MS&E ANALYSIS SEMI CORE:

9 pts total, at least (1) from Management & (1) from Analysis

1. IEOR E4009 Non-linear Optimization
2. IEOR E4405 Scheduling
3. IEOR E4521 Systems Engineering, Tools and Methods
4. IEOR E4540 Data Mining for Engineers
5. IEOR E4572-001 Data Analytics for OR
6. IEOR E4601 Dynamic Pricing & Revenue Management
7. IEOR E4600 Applied Integer Programming
8. IEOR E4577 OR Methods in Marketing (1.5)
9. IEOR E4600 Applied Integer Programming
10. IEOR E4573 Computational Discrete Optimization



PROFESSIONAL DEVELOPMENT

- MONDAYS & WEDNESDAYS 1:10-2:25PM
- FRIDAYS 12:30-2:15PM, 3-4:30PM
- Do not need to register
- Timeslot designated for career talk speakers and employer visits

COURSES BY PROFESSIONAL AREAS OF INTEREST

1. Analytics & Data
2. Consulting
3. Entrepreneurship
4. Finance and Financial Engineering
5. Operations Management

ANALYTICS & DATA

- DROM B8122-060 MSE Game-Theoretic Business Strategy
- IEOR E4211 Applied Consulting (MSOR & MSIE only)
- IEOR E4525 Machine Learning for OR & FE
- IEOR E4572 Data Analytics for OR
- IEOR E4574 Cloud Computing
- IEOR E4576 Industry Projects in Analytics
- IEOR E4650 Business Analytics
- IEOR E4725 Big Data in Finance

CONSULTING

- DROM B8108-060 Supply Chain Management
- DROM B8122-060 Game-Theoretic Business Strategy
- DROM B8123-060 Demand and Supply Analytics
- DROM B8510-060 Managerial Negotiations
- IEOR E4211 Applied Consulting (MSOR & MSIE only)
- IEOR E4412 Quality Control & Management
- IEOR E4510 Project Management
- IEOR E4505 Operations Research in Public Policy

ENTREPRENEURSHIP

- FINC B8307-004 Advanced Corporate Finance
- IEOR E4560 Lean Launch Pad
- IEOR E4570 Hacking for Energy
- IEOR E4998 Managing Tech. Innovation & Entrepreneurship

FINANCE & FINANCIAL ENGINEERING

- **ECON W4280 Corporate Finance (By application)**
- **FINC B8307-004 Advanced Corporate Finance***
- **IEOR E4700 Introduction to Financial Engineering**
- **IEOR E4630 Asset Allocation**
- **IEOR E4725 Big Data in Finance**
- **IEOR E4726 Applied Financial Risk Management**
- **IEOR E4734 Foreign Exchange and Related Derivatives**
- **IEOR E4735 Structured and Hybrid Products**

*FINC and DROM courses do not count towards the 18 IEOR credit requirement.

OPERATIONS MANAGEMENT

- DROM B8108-060 Supply Chain Management
- DROM B8122-060 Game-Theoretic Business Strategy
- DROM B8123-060 Demand and Supply Analytics
- DROM B8510-060 Managerial Negotiations
- IEOR E4009 Nonlinear Optimization
- IEOR E4412 Quality Control and Management
- IEOR E4405 Scheduling
- IEOR E4505 Operations Research in Public Policy
- IEOR E4510 Project Management
- IEOR E4600 Applied Integer Programming
- IEOR E4601 Dynamic Pricing and Revenue Management
- IEOR E4573 Computational Discrete Optimization



SUMMER AND FALL 2017

1. Fall and Summer 2017 schedules will be available by end of February.
2. Summer 2017: IEOR will offer 2-3 electives and Fieldwork. Additional courses are available in CS, Econ, Math, Stats, MBA, eMBA.
3. Fall 2017 electives are likely similar to Fall 2016; new courses may be offered.

CROSS REGISTRATION

- COLUMBIA BUSINESS (MBA & eMBA):
 - Spring 2017: Starts January
- COLUMBIA SIPA:
 - Rolling basis, on SSOL

EMPLOYER FEEDBACK

Employers are keen observers.

1. Cell phone and computer use.
2. Look disinterested.
3. Attendance check-in, and then leave.
4. Mid-presentation arrivals and departures.
5. Ravenous and savage dining etiquette.
6. Disingenuous.
7. Transactional.

Q & A