DEGREE OVERVIEW

• Master of Science in Operations Research
• Master of Science in Industrial Engineering
• Awarded by The Fu Foundation School of Engineering and Applied Science, Columbia University

• Expected Completion:
  – May, August or December 2016

• Expected Degree Conferral:
  – May 2016, October 2016 or February 2017
DEGREE REQUIREMENTS

• 30 credits
  – Four required core courses plus electives

• MSOR CORE: SIEO W4150, IEOR E4004, IEOR E4106 & IEOR E4404

• MSIE CORE: SIEO W4150, IEOR E4000, IEOR E4004 & IEOR E4106

• At least 6 courses (18 credits) must be in the IEOR department (IEOR, SIEO, IEME, CSOR designation).

• No Pass/Fail Courses

• All courses must be completed at Columbia

• Remain in good standing

• Academic integrity
• IEOR E4721 Correlation Risk Modeling and Management (3)
• IEOR E4722 Modeling and Market Making in Foreign Exchange (1.5)
• IEOR E4731 Credit Risk Modeling and Derivatives (3)
• IEOR E4999 Fieldwork (Departmental approval)
DRO SUMMER OFFERINGS

• DROM B8106-060 Operations Strategy (1.5)

• Additional electives are offered during cross registration starting first week of May
ADDITIONAL SUMMER OFFERINGS

• Refer to approved Summer 2016 elective list
• Additional courses offered in:
  – Computer Science
  – Economics
  – Mathematics
  – Statistics
  – Business School (Cross Registration)

• Courses not on the Summer 2016 elective list are not pre-approved; you must seek approval from info@ieor.columbia.edu.
FALL REGISTRATION

- Analytics
- Consulting
- Management
- Finance/Financial Engineering
- Entrepreneurship
- Decision, Risk, Operations
INTEREST IN ANALYTICS

- IEOR E4404 Simulation
- IEOR E4407 Game Theoretic Models of Operations
- IEOR E4570 Data Mining
- IEOR E4575 Designing Digital Operating Models
- IEOR E4650 Business Analytics (two sections)
- DROM B8127-060 Immersion Seminar in Big Data
INTEREST IN CONSULTING

- IEME E4310 The Manufacturing Enterprise
- IEOR E4000 Operations Management
- IEOR E4407 Game Theoretic Models
- IEOR E4507 Healthcare Operations Management
- IEOR E4550 Entrepreneurial Business Creation
- IEOR E4573 Design and Agile Project Mgmt. Eng. Lab (by application)
- IEOR E4711 Global Capital Markets (two sections)
- IEOR E4998 Managing Tech. Innovations
- DROM B8107-060 Service Operations
- DROM B8510 MSE Managerial Negotiations (two sections; 060 & 061)
INTEREST IN MANAGEMENT

- IEOR E4000 Operations Management
- IEOR E4507 Healthcare Operations Management
- IEOR E4550 Entrepreneurial Business
- IEOR E4998 Managing Tech. Innovations
- DROM B8107-060 Service Operations
- DROM B8510 MSE Managerial Negotiations (two sections; 060 & 061)
INTEREST IN FINANCIAL ENGINEERING

HIGHLY SUGGESTED, FOUNDATIONAL:

• IEOR E4700 Intro to Financial Engineering
• IEOR E4711 Global Capital Markets (two sections)

ELECTIVES:

• IEOR E4620 Pricing Models for FE
• IEOR E4723 (new course to be offered)
• DROM B8116-060 Risk Management
INTEREST IN FINANCIAL ENGINEERING

ADVANCED COURSES:

• IEOR E4500 Applications Programming for FE
• IEOR E4727 Programming for FE
• IEOR E4732 Computational Methods in Derivatives Pricing
• IEOR E4733 Algorithmic Trading
INTEREST IN ENTREPRENEURSHIP

FOUNDATIONAL:

• IEOR E4550 Entrepreneurial Business
• IEOR E4573 Design and Agile Project Mgmt. Eng. Lab (by application)
• IEOR E4998 Managing Tech. Innovations

OPTIONAL:

• DROM B8510 MSE Managerial Negotiations (two sections; 060 & 061)
CROSS REGISTRATION

- COLUMBIA BUSINESS:
  - Summer 2016: Starts first week of May
  - Fall 2016: Starts last week of August

- COLUMBIA SIPA:
  - No summer courses
  - Fall 2016: Rolling basis, on SSOL
YOUR ACTION ITEMS

• Research your courses: ieor.columbia.edu/ieor-courses-topics
• Discuss selections with your advisor
• Register ssol.columbia.edu/
  – Summer 2016 courses (now opened)
  – Fall 2016 courses (opens 4/18)
  – Review your tuition e-Bill
• Review academic calendar registrar.columbia.edu/
THE IEOR OFFICE

3rd Floor Mudd Hall

info@ieor.columbia.edu

www.ieor.columbia.edu