AGENDA

• Degree Overview and Requirements
• Program Overview
• IEOR E4150 Waiver Application
• Suggested Electives based on interest:
  – Consulting, Management, Finance, Analytics and Entrepreneurship
• Special MSE Electives (Registration open in late August)
• Faculty Advisors
DEGREE OVERVIEW

• 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 2018
• Expected Degree Conferral:
  – May 2018, October 2018 or February 2019
DEGREE REQUIREMENTS

- 30 credits
  - Four required core courses plus electives, 18 points must be IEOR courses
- MSIE core: IEOR E4000, IEOR E4150, IEOR E4004-002/003, IEOR E4106
- ENGI E4000 is required in order to receive IEOR career management services
- No Pass/Fail courses
- All courses must be completed at Columbia
- Remain in good standing; academic integrity
MSIE PROGRAM

For Fall 2017 semester, register for the following:

1. IEOR E4000 Operations Management
2. IEOR E4150 Intro to Probability & Statistics
3. IEOR E4004 (Section 002 or 003) Optimization Models and Methods
4. ENGI E4000-011 Professional Development

If are waived of IEOR E4150, then you should register for: IEOR E4106 Stochastic Models
IEOR E4150

• IEOR E4150 Introduction to Probability and Statistics is a foundational core course; inadequate preparation will lead to difficulty completing the program.
• You have an option to take the course in the fall or request a waiver.
• We will review your request to waive and respond within (10) business days.
• To request a waiver, fill out the form: https://goo.gl/forms/TXUqWoxui069VLWh1
• Deadline to request the waiver: August 25, 2017
HELPFUL SUGGESTIONS

• Be conservative and observe pre-requisite requirements.

• If you are waived from taking IEOR E4150, you should take IEOR E4106 in the Fall so you are prepared to take electives in the spring.

• Do *not* take the following set of courses in the same term:
  – IEOR E4150, IEOR E4106, IEOR E4404
  – IEOR E4150, IEOR E4106, IEOR E4700
  – IEOR E4106, IEOR E4404, IEOR E4700
INTEREST IN FINANCE

HIGHLY SUGGESTED, FOUNDATIONAL:
- IEOR E4403 Quantitative Corporate Finance
- IEOR E4711 Global Capital Markets

OPTIONAL:
- IEOR E4576 Derivatives Marketing and Structuring (1.5)
- IEOR E4700 Intro to Financial Engineering*
- IEOR E4620 Pricing Models for FE**
- IEOR E4500 Applications Programming for FE***
- DROM B8116-060 Risk Management (Open late August)

*Requires IEOR E4106

**Requires IEOR E4700; can be taken simultaneously as IEOR E4620

***Requires programming proficiency & opens in late August
INTEREST IN ANALYTICS

FOUNDATIONAL:
• IEOR E4522 Python for Operations Research (1.5)
• IEOR E4523 Data Analytics for Operations Research

ELECTIVES:
• IEOR E4540 Data Mining
• IEOR E4575 Designing Digital Operating Models
• IEOR E4650-001/002 Business Analytics
• DROM B8131-060 Sport Analytics (Open late August)
IEOR E4522 Python Waiver

• IEOR E4522 Python is a required pre-requisite course for the Business Analytics concentration
• You have an option to take the course in the fall or request a waiver in order to take higher level BA electives
• We will review your request to waive and respond within (10) business days.
• To request a waiver, fill out the form: https://goo.gl/forms/xFJB87Vt4E8HHDOj1
• Deadline to request the waiver: August 18, 2017
INTEREST IN CONSULTING

- IEME E4310 The Manufacturing Enterprise
- IEOR E4000 Operations Management
- IEOR E4407 Game Theoretic Models
- IEOR E4711 Global Capital Markets
- IEOR E4555 Design and Agile Project Mgmt. Eng. Lab (Application Required; Deadline: August 4th)
- IEOR E4998 Managing Tech. Innovations
- DROM B8107-060/061 Service Operations (Open late August)
- DROM B8510-060/061 Managerial Negotiations (Open late August)
INTEREST IN MANAGEMENT

- IEOR E4000 Operations Management
- IEOR E4550 Entrepreneurial Business Creation
- IEOR E4998 Managing Tech. Innovation
- IEOR E4575 Designing Digital Operating Models
- DROM B8107-060/061 Service Operations (Open late August)
- DROM B8510-060/061 Managerial Negotiations (Open late August)
INTEREST IN ENTREPRENEURSHIP

- IEOR E4403 Quantitative Corporate Finance
- IEOR E4550 Entrepreneurial Business Creation
- IEOR E4555 Design and Agile Project Mgmt. Eng. Lab *(Application Required; Deadline: August 4th)*
- IEOR E4998 Managing Tech. Innovations
- DROM B8510-060/061 Managerial Negotiations (Open late August)
- DROM B8858-060 Data-Driven Entrepreneurship (Open late August)
The following courses are special courses from the Business school exclusive to MS&E students. MSIE students are limited to only (1) of the five courses when they open in late August.

- DROM B8107-060/061 Service Operations
- DROM B8116-060 Risk Management
- DROM B8131-060 Sports Analytics
- DROM B8510-060/061 Managerial Negotiations
- DROM B8858-060 Data-Driven Entrepreneurship
IEOR FACULTY ADVISORS

- Faculty advisor will be assigned during orientation.
- For early registration inquiries, please email the IEOR Academic Affairs Team.
YOUR ACTION ITEMS

• Activate your UNI
• Login to SSOL https://ssol.columbia.edu/
• Register for your courses (core & electives)
• Like! the IEOR Advising Facebook Page https://www.facebook.com/IEORAdvising/
• Review your tuition e-Bill
• Review academic calendar http://registrar.columbia.edu/
THE IEOR OFFICE

SUITE 315 MUDD

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www.ieor.columbia.edu