MS&E EARLY REGISTRATION INFORMATION FALL 2017
AGENDA

• Degree Overview
• Degree Requirements
• Program Overview
• Probability Part 1 Waiver Exam Application
• Suggested Electives based on interest:
  – Consulting, Management, Finance and Entrepreneurship
• Business School MS&E Courses
• Faculty Advisors
MS&E DEGREE OVERVIEW

• Master of Science
  – Management Science & Engineering
• Program offered by Columbia Engineering in conjunction with Columbia Business
• Expected Completion:
  – August or December 2018
• Expected Degree Conferral:
  – October 2018 or February 2019
DEGREE REQUIREMENTS

• 36 credits
  – Five required core courses plus electives
• MSE core: DROM B8000-060, IEOR E4004-001, IEOR E4111, IEOR E4101, IEOR E4102
• ENGI E4000-010 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
MS&E PROGRAM

• Fall 2017 Semester
  – DROM B8000-060 Introduction to Spreadsheet Optimization and Simulation
  – IEOR E4004-001 Optimization Models and Methods
  – IEOR E4111 Operations Consulting
  – IEOR E4101 Probability Models for MSE
  – ENGI E4000-010 Professional Development Leadership
  – Semi Core or Breadth Elective(s)

• Spring 2018 Semester
  – IEOR E4102 Stochastic Models for MSE
  – Semi Core or Breadth Elective(s)

• Summer or Fall 2018
  – Semi Core or Breadth Elective(s)
PROBABILITY PART 1 WAIVER

- IEOR E4101 Probability Models is a foundational core course; inadequate preparation will lead to difficulty completing the program.
- You have an option to take the full course in the fall or request to take a waiver exam for the first half of the course.
- To request a waiver exam, fill out the form: https://goo.gl/forms/iLxJ0kMswDpJ1AMy1
- Deadline to request the waiver: August 21, 2017
INTEREST IN CONSULTING

• IEME E4310 The Manufacturing Enterprise
• IEOR E4000 Operations Management
• IEOR E4407 Game Theoretic Models of Operations
• IEOR E4418 Transportation Analytics and Logistics
• IEOR E4520 Applied Systems Engineering
• IEOR E4550 Entrepreneurial Business Creation
• IEOR E4711 Global Capital Markets
• IEOR E4555 Design and Agile Project Mgmt. Eng. Lab
  (Application required; Deadline: August 4th)
• DROM B8107-060/061 Service Operations
• DROM B8510-060/061 Managerial Negotiations
INTEREST IN MANAGEMENT

- IEOR E4000 Operations Management
- IEOR E4550 Entrepreneurial Business
- IEOR E4575 Designing Digital Operating Models
- IEOR E4998 Managing Tech. Innovations
- DROM B8107-060/061 Service Operations
- DROM B8510-060/061 Managerial Negotiations
INTEREST IN FINANCE

- ECON GU4280 Corporate Finance (By application only; Deadline: August 4th)
- IEOR E4403 Quantitative Corporate Finance
- IEOR E4700 Introduction to Financial Engineering
- IEOR E4711 Global Capital Markets
- DROM B8116-060 Risk Management
INTEREST IN ANALYTICS

- IEOR E4540 Data Mining
- IEOR E4575 Designing Digital Operating Models
- IEOR E4650 Business Analytics
- DROM B8131-060 Sports Analytics
- DROM B8816-001 Quantitative Pricing & Revenue Analytics (1.5)
- IEOR E4522 Python for Operations Research (1.5)*
- IEOR E4523 Data Analytics for Operations Research*

*The above two courses will be opened for registration in late August. Priority is given to MSOR students.
IEOR E4522 Python Waiver

• IEOR E4522 Python is a required co-requisite course for the IEOR E4523 Data Analytics for OR.
• You have an option to take the course in the fall or request a waiver in order to take higher level Business Analytics 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 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
- DROM B8858-060 Data-Driven Entrepreneurship
EXCLUSIVE BUSINESS SCHOOL
MSE COURSES

The following courses are special courses from
the Business school exclusive to MS&E students:

- DROM B8107-060/061 Service Operations
- DROM B8116-060 Risk Management
- DROM B8131-060 Sports Analytics
- DROM B8510-060/061 Managerial Negotiation
- DROM B8858-060 Data-Driven Entrepreneurship
Faculty advisor will be assigned beginning of September.
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:
  – IEOR E4004-001, E4111, E4101, DROM B8000-060, ENGI E4000-010
  – Review your tuition e-Bill
• Like! the IEOR Advising Facebook Page https://www.facebook.com/IEORAdvising/
• Review academic calendar http://registrar.columbia.edu/