MS in MANAGEMENT SCIENCE & ENGINEERING
ACADEMIC ADVISING FOR FALL 2017
AGENDA

1. Degree Overview
2. Degree Requirements
3. Program Overview
4. Probability Part 1 Waiver Exam Application
5. Suggested Electives based on interest: Consulting, Management, Finance and Entrepreneurship
6. Business School MS&E Courses
7. Faculty Advisors
MS&E DEGREE OVERVIEW

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

1. 36 credits: Five required core courses plus electives
2. MSE core: DROM B8000-060, IEOR E4004-001, IEOR E4111, IEOR E4101, IEOR E4102
3. ENGI E4000-010 is required in order to receive IEOR career management services
4. No Pass/Fail courses
5. All courses must be completed at Columbia
6. Remain in good standing
7. 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)
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
DESCRIPTION OF COURSES

www.ieor.columbia.edu and click on Courses
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

1. Activate your UNI
2. Login to SSOL https://ssol.columbia.edu/
3. Register: IEOR E4004-001, E4111, E4101, DROM B8000-060, ENGI E4000-010
4. Like! the IEOR Advising Facebook Page https://www.facebook.com/IEORAdvising/
5. Review academic calendar http://registrar.columbia.edu/
THE IEOR OFFICE

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