IEOR GRADUATE ORIENTATION
MONDAY AUGUST 29, 2011

Department of Industrial Engineering and Operations Research
Agenda

- Degree Overview & Requirements
- Academic Expectations
- Course Recommendations
- Faculty Advisors
- Academic Calendar & Registration
- Tuition
- Computer Lab and Policies
- Next Steps
Degree Overview

Master of Science
- Industrial Engineering
- Management Science & Engineering
- Operations Research

Awarded by The Fu Foundation School of Engineering and Applied Science, Columbia University

Expected Completion:
- May, August or December 2012

Expected Degree Conferral:
- May 2012, October 2012 or February 2013
Degree Requirements

- 36 points for MS&E
- 30 points for MSIE & MSOR
- Satisfy required core courses & electives
- No Pass/Fail courses
- All courses must be completed at Columbia
Degree Requirements (cont’d)

- Submitted Official Transcripts from Previous Schools
- Academic Integrity
- International Students must maintain full time status (12 pts)
  - EXCEPTION: During last semester of study, student may register for less than 12 points
Academic Performance

- Achieve grades of B- or higher in core courses of Program
- Cumulative GPA equivalent to a B- every term enrolled
- Poor performance leads to serious problems in completing the Program
MSIE Curriculum

Fall Semester
- SIEO W4150 Intro to Probability & Statistics
- IEOR E4000 Production Management
- IEOR E4004 Deterministic Models
- Elective(s)

Spring Semester
- IEOR E4106 Stochastic Models
- Elective(s)
MS&E Curriculum

Fall Semester
- IEOR E4004 Deterministic Models
- IEOR E4106 Stochastic Models
- IEOR E4111 Operations Consulting
- Elective(s)
- SIEO W4150 Intro to Probability & Statistics

Spring Semester
- Elective(s)
MSOR Curriculum

Fall Semester
- SI EO W4150 Intro to Probability & Statistics
- IEOR E4004 Deterministic Models
- Elective(s)

Spring Semester
- IEOR E4106 Stochastic Models
- IEOR E4404 Simulation
- Elective(s)
Course Waivers

In order to be exempt from a course, you must provide:

- Course description & grade earned from previous institution
- Course syllabus, including the textbook used for the course
- Email to info@ieor.columbia.edu

You will be waived from taking the course; you need to select an alternate course to complete 30 points at Columbia
Interest in Finance

- IEOR E4403 Adv. Engineering & Corporate Economics (Fall)
- IEOR E4620 Pricing Models for FE (Fall)
- IEOR E4700 Intro to Financial Engineering* (Fall & Spring)
- IEOR E4721 Global Capital Markets (Fall & possibly Spring)
- FINC B6301 Corporate Finance (Fall & its equivalent in the Spring)

*Requires IEOR E4106
Interest in Entrepreneurship

- IEOR E4207 Human Factors (Fall)
- IEOR E4403 Adv. Engineering & Corporate Economics (Fall)
- IEOR E4550 Entrepreneurial Business (Fall & Spring)
- IEOR E4705 Studies in OR (Fall, possibly Spring)
- IEOR E4998 Managing Tech. Innovations (Fall & Spring)
Interest in Consulting

- IEME E4310 The Manufacturing Enterprise (Fall)
- IEOR E4000 Production Management (Fall)
- IEOR E4207 Human Factors (Fall)
- IEOR E4403 Adv. Engineering & Corporate Economics (Fall)
- IEOR E4407 Game Theoretic Models (Fall)
- IEOR E4550 Entrepreneurial Business (Fall & Spring)
- IEOR E4705 Studies in OR (Fall, possibly Spring)
- IEOR E4721 Global Capital Markets (Fall & possibly Spring)
- IEOR E4998 Managing Tech. Innovations (Fall & Spring)
Interest in Management

- IEME E4310 The Manufacturing Enterprise (Fall)
- IEOR E4000 Production Management (Fall)
- IEOR E4207 Human Factors (Fall)
- IEOR E4403 Adv. Engineering & Corporate Economics (Fall)
- IEOR E4550 Entrepreneurial Business (Fall & Spring)
- IEOR E4705 Studies in OR (Fall & possibly Spring)
- IEOR E4721 Global Capital Markets (Fall & possibly Spring)
- IEOR E4998 Managing Tech. Innovations (Fall & Spring)
Cross Registration: GSB & SIPA

- You may bid for (GSB) Business & International Affairs courses
- You may bid online
  - Priority bidding closes on Thursday, 9/1
  - Waitlist closes on Monday 9/12
- Make selections very carefully – you may only select once
- Results are emailed:
  - Business priority 9/6; waitlist 9/13
  - SIPA priority 9/8; waitlist 9/13
Cross Registration **Suggestions**

- Business course seats are competitive
  - Select FINC B6301, DRAN B8833, DRAN B8840 – they are Engineering owned
  - Select e-MBA courses to increase likelihood of obtaining course of choice
- Do not bid on any courses that conflict with your required core/electives
- Do not contact the faculty as seats are allocated for the Engineering School
- Satisfy the pre-requisite requirement
Department Faculty Advisors

- Dr. Jose Blanchet
- Dr. Maria Chudnovsky
- Dr. Guillermo Gallego
- Dr. Vineet Goyal
- Dr. Xuedong He
- Dr. Jay Sethuraman
- Dr. Van Anh Truong
- Dr. David Yao
Academic Calendar

- http://registrar.columbia.edu/academic-calendar/4
- **Fall Semester:** 9/6/11 – 12/23/11
- **Spring Semester:** 1/17/12 – 5/11/12
- **Spring Recess:** 3/12/12 – 3/16/12
- **Graduation 2011:** 5/16/12*

*For May 2012 and October 2012 graduates only.
Registration

- All students should register for your Fall core courses now
- Registration is completed via Student Services Online (SSOL)
- Registrar’s Office is located in Kent Hall
- Register for at least (1) course by September 1, 2011 to avoid late registration charge
Tuition & e-Bill

- Tuition is calculated per point, depending on the number of courses registered
- Student Financial Services in Kent Hall
- Electronic billing (e-Bill) through SSOL
- Due date listed on e-Bill
301 Computer Lab & 303 Mudd

- Lab Account
- Software Available
- No Printing

Computer Lab & 303 Mudd Maintenance
- ABSOLUTELY NO DRINKS
- ABSOLUTELY NO FOOD
- ABSOLUTELY NO GARBAGE

Michael Mostow, System Administrator
- mikem@ieor.columbia.edu
Prepare!

Academic Advising & Registration

- Research courses! **DO NOT** select electives that conflict with your required core courses
  - [http://ieor.columbia.edu/misc-pages/IEOR_Courses.html](http://ieor.columbia.edu/misc-pages/IEOR_Courses.html)
- Fill out your Program Plan
- Print out two copies to discuss with advisor
- Your advisor will keep one copy
- Send an approved electronic copy to advising@ieor.columbia.edu
- Changes on your Program Plan must be approved by your advisor
Next Steps

- Activate your email
- Familiarize with SSOL
- Obtain your ID card if not retrieved
  - ID Center at Kent Hall
- Review IEOR Graduate Student Handbook