IEOR MAJORS INFORMATION SESSION
FRIDAY, OCTOBER 1, 2010

Presented By
Ms. Adina Brooks, Student Affairs Manager
WELCOME TO THE IEOE DEPARTMENT
What is the IEOR Department?

- Department founded in 1918 in the FuSEAS
- One of nine Engineering Departments
- Department specializes in 4 disciplines:
  - Engineering Management
  - Financial Engineering
  - Industrial Engineering
  - Operations Research
The IEOR Toolkit

We teach a toolkit to solve problems in various industries: finance, technology, service, manufacturing

Toolkit consists of:

- Mathematical skills (i.e. Probability, Calculus, Statistics)
- Modeling skills (i.e. Simulation)
- Programming skills (i.e. Java, C, SQL)
- Soft skills (i.e. presentation, management)
- Industry specific knowledge
IEOR Department: Enrollment
The IEOR People

Currently:

- Undergraduates: 290
- M.S. Students: 331
- Ph.D. Students: 49
- Full-time Faculty: 20
- Adjunct Faculty: 35
- Affiliated Faculty: 13 (Business, Electrical, Statistics, Mathematics)
Tools to Stay on Track

- Follow the SEAS Bulletin from your major declaring year
- Plan ahead: use the Program Plans by major
Academic Advisors

All students are assigned an advisor

Academic Advisors:

- Adina Brooks
- Don Goldfarb
- Garud Iyengar
- Soulaymane Kachani
- Jenny Mak
- Mariana Olvera-Cravioto
- Jay Sethuraman
- Karl Sigman
IEOR Curriculum: Sophomore Year

Probability and Statistics

- If OR, IE or EMS, take SIEO W3600
- If you are interested in FE, take IEOR E3658 (or STAT 4105) and STAT W3107 (or STAT 4107)
- If you have already taken IEOR E3658 Probability – you may **not** take SIEO W3600; you need to take STAT W3107 (or STAT 4107)

Data Structures

- Take it right after COMS 1004 or 1007
Financial Engineering Concentration

To be considered at the end of the Fall term: apply online by December 3
- Responses will be emailed by third week of January

To be considered at the end of the Spring term: apply online by May 20, 2011
- Responses will be emailed by the third week of June.
Undergraduate Advanced Track

The undergraduate advanced track is designed for IEOR undergraduate students with the desire to pursue graduate work. Students with a minimum cumulative G.P.A. of 3.4 and faculty approval have the opportunity to participate. Students are invited to apply to the track upon the completion of their sophomore year. Advanced track students are required to take higher level IEOR courses including:

IEOR E4004 instead of IEOR E3608
IEOR E4106 instead of IEOR E3106
IEOR E4403 instead of IEOR E4003
and MATH V2500

Students successfully completing the requirements of the undergraduate advanced track will receive recognition on their academic record.
Keep In Mind

Add/Drop Policy for required courses (IEOR 3608, 3106 and 4404)
- Petition for approval; email garud@ieor.columbia.edu

Study Abroad – Junior year spring best

Graduate School? Talk to your advisor

Academic Dishonesty
- Just don’t do it; all cases are reported to the Dean
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<th>INDUSTRIES</th>
<th>COMPANIES</th>
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<td><strong>FINANCIAL SERVICES</strong></td>
<td>HSBC, Deutsche Bank, Goldman</td>
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<td>Sachs, Merrill Lynch, Morgan</td>
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<td>Stanley, JPMorganChase, Morgan</td>
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<td>Allen, Hamilton, UPS, FedEx</td>
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Recent Graduates

Recent graduates have found positions in prestigious organizations:

- Major Financial Services: Barclay’s Capital, Bank of America, BlackRock, Citigroup, Credit Suisse, DE Shaw & Co., Deutsche Bank, JPMorgan Chase, Goldman Sachs, HSBC, Morgan Stanley, UBS
- Technology: Google
- Service/Manufacturing: FreshDirect
- Public Service Agencies: Port Authority of NY/NJ, UPS
Entrepreneurship, Leadership and Consulting (ELC) Club

Columbia entrepreneurship leadership and consulting club (ELC) is dedicated to enhance the spirit of entrepreneurship, the skills of leadership and the profession of consulting, within the student body of Columbia University.

http://www.columbia.edu/cu/elc/elc@columbia.edu
ELC Activities

- Training/Workshops
- Seminars
- Case study Groups
- Small Business Consulting
- Real Project consulting
- Business idea development
- Networking events
INFORMS Chapter

The purpose of INFORMS is:
- Promote interest in EMS, FE, IE, and EMS
- Facilitate the exchange of ideas and information regarding methods and techniques in the field
- Foster a sense of community among students
- Provide mentoring for students seeking careers or higher education
- Connect students with speakers from industry and academia

http://sites.google.com/site/cuinforms/
CUINFORMS@gmail.com
IEOR Department Events

Every year, the IEOR Department hosts a number of events, including:

- Seminars
- Social Events
- Faculty Lunches
- Field Trips
- Alumni Socials
- Panel Discussions