

IEOR SOPHOMORE ADVISING SESSION

THURSDAY, OCTOBER 29, 2009

Presented By

Ms. Jenny Mak, Director

Ms. Adina Brooks, Student Affairs Manager



Department of Industrial Engineering and Operations Research



WELCOME TO THE IEOR 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

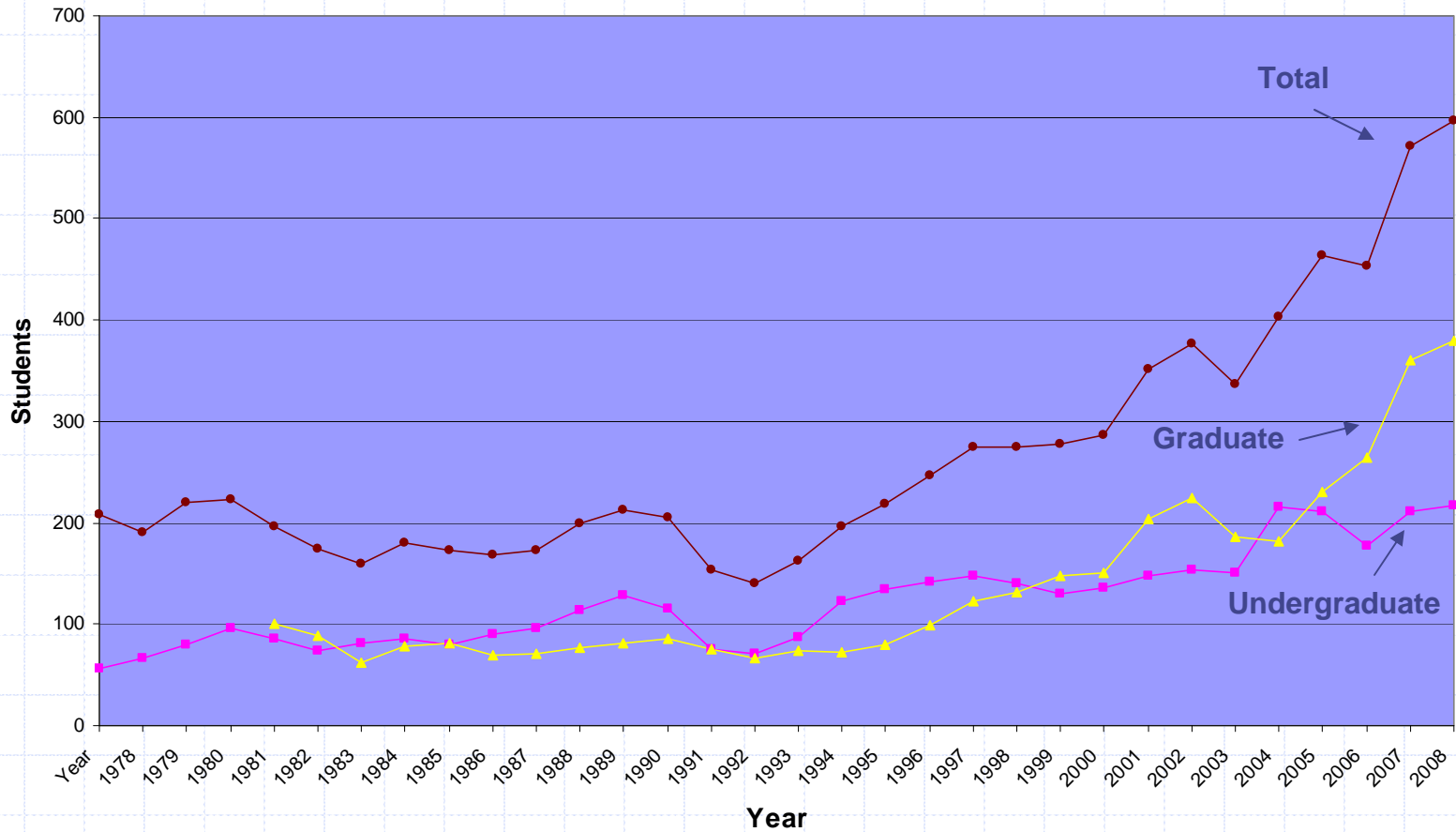


The IEOR Toolkit

- ◆ 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: 19
- ◆ Adjunct Faculty: 35
- ◆ Affiliated Faculty: 13 (Business, Electrical, Statistics, Mathematics)



Tools to Stay on Track

- ◆ Follow the SEAS Bulletin 2009-10
- ◆ Plan ahead: use the Program Plans by major



COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK
DEPARTMENT OF INDUSTRIAL ENGINEERING AND OPERATIONS RESEARCH
BS IN OR: FINANCIAL ENGINEERING AND OPERATIONS PROGRAM PLAN

NAME: _____ PID: _____ CELL PHONE: _____
SUN: _____ HOME: _____
ADDRESS: _____

FIRST & SECOND YEAR REQUIREMENTS

YEAR	COURSE NUMBER	CREDITS COMPLETED	YEAR	COURSE NUMBER	CREDITS COMPLETED
	IEOR E1200	4.0		IEOR E4000	3.0
	ENGR E2261	4.0		COMS W4111	3.0
	PHYS 2200	3.0		IEOR E4001	3.0
	MATH 2250	3.0		IEOR E4002	3.0
	MATH E1210	3.0		STAT W4000	3.0
	OR MATH 2201	3.0		STAT W4001	3.0

THIRD YEAR REQUIREMENTS

YEAR	COURSE NUMBER	CREDITS COMPLETED	YEAR	COURSE NUMBER	CREDITS COMPLETED
	IEOR E3100	3.0		IEOR E4002	4.0
	IEOR E3101	3.0		IEOR E4003	4.0
	IEOR E4000	3.0		IEOR E4004	3.0
	IEOR E4001	3.0		IEOR E4005	3.0
	IEOR W3111	3.0		IEOR W3112	3.0

FOURTH YEAR REQUIREMENTS

YEAR	COURSE NUMBER	CREDITS COMPLETED	YEAR	COURSE NUMBER	CREDITS COMPLETED
	IEOR E4000	3.0		IEOR E4001	3.0
	IEOR E4001	3.0		IEOR E4002	3.0
	IEOR E4002	3.0		IEOR W4111	3.0

SELECTIVE REQUIREMENTS

YEAR	COURSE NUMBER	CREDITS COMPLETED

U.S. World Ranking: Best 100 | www.columbia.edu



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 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 4
 - Responses will be emailed by third week of January
- ◆ To be considered at the end of the Spring term: apply online by May 21, 2010
 - Responses will be emailed by the third week of June.



Keep In Mind

- ◆ Add/Drop Policy for required courses
 - 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

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/cuinform/
CUINFORMS@gmail.com](http://sites.google.com/site/cuinform/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



IEOR Department

www.ieor.columbia.edu

Room 313 Mudd