ACADEMIC ADVISING, FALL 2018

MS in BUSINESS ANALYTICS

NEW
AGENDA

1. Your Arrival
2. Degree Overview and Requirements
3. Program Overview
4. Waiver Exams
5. Faculty Advisors
6. Next Steps
YOUR ARRIVAL

• Monday August 13 - Columbia IEOR Beer & BBQ at Brooklyn Brewery
• Thursday August 16 - Columbia MSBA Program Kick-Off [MANDATORY]
• Friday August 17 - Columbia Engineering Welcome Day
• Monday August 20 - Classes begin! [MANDATORY]
MSBA DEGREE OVERVIEW

1. Master of Science in Business Analytics
2. Program offered by Columbia Engineering in partnership with Columbia Business
3. Expected Completion: August or December 2019
4. Expected Degree Conferral: October 2019 or February 2020
DEGREE REQUIREMENTS

1. 36 credits: Five required core courses plus electives
2. MSBA core: IEOR E4575, IEOR E4501, IEOR E4523, IEOR E4004-002, IEOR E4101, IEOR E4650, IEOR E4524
3. ENGI E4000-010 is an MS degree requirement
4. No Pass/Fail courses
5. All courses must be completed at Columbia
6. Remain in good standing
7. Academic integrity
MSBA PROGRAM

- **Fall 2018 Semester**
  - IEOR E4575 Mathematics for Business Analytics Bootcamp
  - IEOR E4004-002 Optimization Models and Methods
  - IEOR E4101 Probability, Statistics and Simulation
  - IEOR E4501 Tools for Analytics
  - IEOR E4523 Data Analytics
  - ENGI E4000-010 Professional Development Leadership

- **Spring 2019 Semester**
  - IEOR E4650 Business Analytics
  - IEOR E4524 Analytics in Practice
  - Concentration or Breadth Elective(s)

- **Summer or Fall 2019**
  - Concentration or Breadth Elective(s)
PROBABILITY 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 (3 points) or request to take a waiver exam to take the half course (1.5 points)

• To request a waiver exam, fill out the form: https://goo.gl/forms/iLxJ0kMswDpJ1AMy1

• Deadline to request the waiver: August 20, 2018

• Date of the waiver exam: August 27, 2018
IEOR E4501 PYTHON WAIVER

• IEOR E4501 Tools for Analytics 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.

• To request a waiver, fill out the form: https://goo.gl/forms/xFJB87Vt4E8HHDOj1

• Deadline to request the waiver: August 20, 2018

• Date of the waiver exam: August 24, 2018
DESRIPTION OF COURSES

Industrial Engineering and Operations Research

The Department offers a variety of courses in theory and professional applications.

Topics range from financial engineering, health operations management, business analytics, decision risk analysis and many more.

Learn more about our course offerings below.

Downloadable IEOR Fall Course Schedule

https://ieor.columbia.edu/ieor-courses

and expand for course description and/or syllabus

Fall 2018
IEOR E4101: Probability, Statistics and Simulation, 3.0 pts

Fall 2018
IEOR E4108: SUPPLY CHAIN MNGMT & DESIGN, 3.0 pts

Fall 2018
IEOR E4111: Operations Consulting, 3.0 pts

OPERATIONS CONSULTING

Prerequisites: Probability and Statistics at the level of SIEO W3600 or SIEO W4150, and Deterministic Models at the level of IEOR E3608 or IEOR E4104, or instructor permission.

This course is for MS-MSE students only. This course aims to develop and harness the modeling, analytical and managerial skills of engineering students and apply them to improve the operations of both service and manufacturing firms. The course is structured as a hands-on laboratory in which students “learn by doing” on real-world consulting projects (October to May). The student teams focus on identifying, modeling and testing (and sometimes implementing) operational improvements and innovations with high potential to enhance the profitability and/or achieve sustainable competitive advantage for their sponsor companies. The course is targeted toward students planning careers in technical consulting (including operations consulting) and management consulting, or pursuing positions as business analysts in operations, logistics, supply chain and revenue management functions, positions in general management and future entrepreneurs.

Section Number Call Number Day, Time & Location Instructor
001 66355 Monday, Thursday 7:10pm-9:40pm
501 Northwest Corner Building Soulaymane Kachani

Fall 2018
IEOR E4150: INTRO-PROBABILITY & STATISTICS, 3.0 pts
MSBA FACULTY ADVISORS

Adam Elmachtoub  Yuri Faenza  Hardeep Johar  Jenny Mak

Faculty advisor will be assigned beginning of September. For early registration inquiries, please email the IEOR Academic Affairs Team.
1. Login to SSOL [https://ssol.columbia.edu/](https://ssol.columbia.edu/) to register on July 30.

2. Register for your core: IEOR E4575, IEOR E4004-002, IEOR E4501, IEOR E4523, E4101-002, ENGI E4000-010

3. Like! the IEOR Advising Facebook Page [https://www.facebook.com/IEORAdvising/](https://www.facebook.com/IEORAdvising/)


5. Ask questions on our Canvas page.
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