



MS in BUSINESS ANALYTICS

ACADEMIC ADVISING FOR FALL 2019

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 12 - Columbia IEOR Beer & BBQ at Brooklyn Brewery
- Thursday August 15 - Program Kick-Off **MANDATORY**
- Friday August 16 - Classes begin! **MANDATORY**
- Saturday August 17 - Columbia Engineering Welcome Day **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 2020
4. Expected Degree Conferral: October 2020 or February 2021

DEGREE REQUIREMENTS

1. 36 credits: Six required core courses plus electives
2. Core: IEOR E4599, IEOR E4501, IEOR E4523, IEOR E4004-001, IEOR E4101-001, IEOR E4650, IEOR E4524
3. 12 credit minimum from the Business School
4. ENGI E4000 is an MS degree requirement (0 points)
5. No Pass/Fail courses
6. All courses must be completed at Columbia
7. Remain in good standing
8. Uphold academic integrity

MSBA PROGRAM

- Fall 2019 Semester
 - IEOR E4599 MSBA Quantitative Bootcamp
 - IEOR E4004-001 Optimization Models and Methods
 - IEOR E4101-001 Probability, Statistics and Simulation
 - IEOR E4501 Tools for Analytics
 - IEOR E4523 Data Analytics
 - ENGI E4000 Professional Development Leadership
- Spring 2020 Semester
 - IEOR E4650 Business Analytics
 - IEOR E4524 Analytics in Practice
 - Business School Electives (Choose 2)
- Summer or Fall 2020
 - Business School Elective (Choose 2)
 - Breadth or Business School Electives (Choose 2)

STARTING JULY 31, REGISTER FOR:

1. IEOR E4599 MSBA Quantitative Bootcamp
2. IEOR E4004-001 Optimization Models and Methods
3. IEOR E4101-001 Probability, Statistics and Simulation
4. IEOR E4501 Tools for Analytics
5. IEOR E4523 Data Analytics
6. ENGI E4000 Professional Development Leadership

DESCRIPTION OF COURSES

Please visit

<https://bulletin.engineering.columbia.edu/courses-1>

to see our course catalogue with brief course descriptions.

IEOR E4650 Business Analytics. 3 points.

Lect: 3. Recit: 1.

Prerequisites: (STAT GU4001) or (IEOR E4150)

In this course, you will learn how to identify, evaluate, and capture business analytic opportunities that create value. Toward this end, you will learn basic analytical methods and analyze case studies on organizations that successfully deployed these techniques. In the first part of the course, we focus on how to use data to develop insights and predictive capabilities using machine learning and data mining techniques. In the second part, we focus on the use of optimization and simulation to support prescriptive decision-making in the presence of a large number of alternatives and business constraints. Finally, throughout the course, we explore the challenges that can arise in implementing analytical approaches within an organization.

IEOR E4501 PYTHON WAIVER EXAM

- IEOR E4501 is a required co-requisite for the IEOR E4523 Data Analytics for OR
- You have an option to take a waiver exam or enroll in the course this fall, in order to take advanced level Analytics electives
- To apply to take the waiver exam, complete <https://goo.gl/forms/xFJB87Vt4E8HHDOj1> by August 22, 2019
- **Date of the waiver exam: August 30, 2019**

PROBABILITY WAIVER

- IEOR E4101 Probability Models is a required core course
- 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 apply to take the waiver exam, complete <https://goo.gl/forms/iLxJ0kMswDpJ1AMy1> by August 22, 2019
- **Date of the waiver exam: August 26, 2019**

MSBA FACULTY ADVISORS



Adam Elmachtoub



Yuri Faenza



Hardeep Johar



Soulaymane Kachani



Jenny Mak

Faculty advisor will be assigned beginning of September.

For early registration inquiries, please email
info@ieor.columbia.edu.

YOUR ACTION ITEMS

1. Activate your UNI
2. Login to SSOL <https://ssol.columbia.edu/>
3. Register for your courses
4. Review your tuition e-Bill
5. Review academic calendar
<https://registrar.columbia.edu/calendar>

OUR OFFICE

SUITE 315 MUDD

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