Executive MS in Information Systems (EMS-IS) for Students Enrolling in the Fall 2019 Semester

In all organizations, regardless of their industry or size, technology is critical to creating maximum efficiency, fostering innovation, and providing a strategic edge. This technological imperative, combined with the exponential growth of data availability and sophistication of quantitative analytical tools, means that all managers, no matter their role, need to have technical and analytical skills to succeed.

The Executive MS in Information Systems with a concentration in Data Analytics is designed to appeal to all managers, regardless of their background or prior technical expertise. It provides comprehensive coverage of both the technical knowledge and strategic know-how that are required for today's executives who need to be able to speak to both the managerial and the technical teams in their organizations. At the same time, it offers a deep focus on the tools and methods of data analytics. Executives who complete this degree will be able to run *ad hoc* data analytics projects on their own and to initiate and evaluate full-scale data-driven projects while working in tandem with a team of data scientists and analysts. Courses on topics such as data warehousing, python programming for data analytics, data mining, and data visualization provide hands-on experience using the latest software tools and statistical analysis methods.

The Executive MS in Information Systems program leads to a Master of Science degree.

Admission Requirements

- At least 5 years of professional/managerial experience. Generally, this experience should be post-undergraduate.
- An undergraduate degree from an accredited university or foreign equivalent.
- Appropriate quantitative skills acquired via academic training or professional experience. These skills may also be demonstrated through a satisfactory score on the GMAT, the GRE or our in-house admissions test.

EMS-IS Curriculum

The program has a total of 31.5 credit hours.

Required Core Courses (13.5 Credits)		
Course #	**Course Title**	**Credits**
BUS 9551	Business Communication I	1.5
CIS 9000	Information Technology Strategy	3
CIS 9340	Principles of Database Management Systems	3
CIS 9490	Systems Analysis and Design	3
CIS 9797	Special Topics in Information Systems Strategy: International Study Tour	3

Required Courses for the Data Analytics Concentration (15 credits)

The required courses for the Data Analytics Concentration may be modified by the Paul H. Chook Department of Information Systems and Statistics and the program Academic Director and Curriculum Committee.

Course #	**Course Title**	**Credits**
STA 9708	Managerial Statistics	3
CIS 9650	Programming for Analytics	3
CIS 9440	Data Warehousing and Analytics	3
CIS 9655	Data Visualization	3
CIS / STA 9660	Data Mining for Business Analytics	3

Culminating Experience (Required, 3 credits)		
CIS 9590	Information Systems Development Project	3

The program reserves the right to amend, modify and change the courses offered and/or the sequence of courses.

Degree Requirements

- Students must earn 31.5 credits for the MS in IS degree, maintain a cumulative 3.000 grade point average, and satisfy all Baruch College, Zicklin School of Business and Executive Programs policies, rules, and regulations.
- A student whose GPA falls below 3.000 after taking 6 or more credits in the program will be on academic grade probation. He or she must comply with all Baruch College requirements of grade probation status to continue in the program. Please refer to the current **Baruch College Graduate Bulletin**, discussion of General Academic Regulations for information on these requirements.
- Because this is a cohort program, all students take the same courses together and in the same order. Many of the later courses in the program have one of the core courses as prerequisites. Any student who enters grade probation status may thus not be able to complete the program within the period of ten to eleven months.
- Students taking all of the courses offered in this cohort program will be registered for 9 or more credits each semester. Thus, they will be considered to be full-time students.

MS in Information Systems Degree Competencies & Program Learning Goals

Information Systems Strategy	Students will be able to analyze or develop an organization's information systems strategy and align it with that organization's overall business strategy.
Information Systems and the Organization	Students will be able to analyze or develop an organization's information systems strategy and align it with that organization's overall business strategy.
Information Technology Infrastructure	Students will be informed about the major components of current organizational Information Technology infrastructure.
Information Systems Development	Students will understand and apply general Information Systems development principles.
Teamwork and Leadership	Students will gain conceptual knowledge and analytical skills helpful to functioning effectively in teams and experience opportunities to understand and develop leadership competencies.

*Baruch is currently in the process of revising our descriptions of graduate programs offered in executive format. These revisions will be completed before the start of the 2019 Fall Semester.

Contact Information

Office of Executive Programs
Zicklin School of Business
Baruch College/CUNY
One Bernard Baruch Way, Box B13-282
New York, NY 10010-5585

Phone: (646) 312-3100
Fax: (646) 312-3101
Email: ExecZicklin@baruch.cuny.edu