

# MANAGEMENT AND SYSTEMS (MS)

Department Website (<https://www.sps.nyu.edu/homepage/academics/masters-degrees/ms-in-management-and-systems.html>)

NYSED: 90193 HEGIS: 0506.00 CIP: 11.1099

## Program Description

The Master of Science in Management and Systems degree is designed to provide students with a solid foundation of business knowledge in the core curriculum. Students are required to select a concentration to ensure depth of knowledge in a content area that will be a differentiator in the workplace. The Strategy and Leadership concentration is intended for students interested in focusing on organizational leadership competencies. The Systems Management and Database Technologies concentrations both provide students with enhanced knowledge of a specific IT domain. The Enterprise Risk Management concentration bridges both management and IT areas, with a focus on managing risk in the financial services industry. A capstone course requirement completes the program of study.

Students may complete the Master of Science in Management and Systems online, on-site, or through a combination of these formats. With courses offered during the evening and on weekends, the degree may be completed in two years of full-time study or in up to five years of part-time study. This allows maximum flexibility for both busy senior managers and executives, as well as for recent college graduates who are just beginning their careers. The program combines rigorous course work with industry case studies and simulations to provide students with a variety of valuable learning opportunities and experiences.

## Concentrations

The Master of Science in Management and Systems offers the following concentrations:

- Database Technologies (<https://www.sps.nyu.edu/homepage/academics/masters-degrees/ms-in-management-and-systems/database-technologies-concentration.html>)
- Enterprise Risk Management (<https://www.sps.nyu.edu/homepage/academics/masters-degrees/ms-in-management-and-systems/enterprise-risk-management-concentration.html>)
- Strategy and Leadership (<https://www.sps.nyu.edu/homepage/academics/masters-degrees/ms-in-management-and-systems/strategy-and-leadership-concentration.html>)
- Systems Management (<https://www.sps.nyu.edu/homepage/academics/masters-degrees/ms-in-management-and-systems/systems-management-concentration.html>)

Each area of specialty provides the distinct technical skills and business acumen to prepare you for tech jobs that require the ability to manage technology projects, systems, and teams in an efficient and cost-effective manner.

## Admissions

All applicants to the School of Professional Studies (SPS) are required to submit the general application requirements (<https://www.sps.nyu.edu/homepage/admissions/admissions-criteria-and-deadlines/general-graduate-admissions-criteria.html>), which include:

- Application Fee
- College/University Transcripts
- Résumé
- Statement of Purpose
- Degree Requirements
- Recommendations
- Kira Talent Assessment
- Degree-Specific Requirements
- English Language Assessment
- Pearson Versant English Placement Test
- International Transcript Evaluation
- International Student Visa Requirements

See degree specific application requirements (<https://www.sps.nyu.edu/homepage/admissions/admissions-criteria-and-deadlines/graduate-programs.html>) for instructions specific to this program.

## Program Requirements

The program requires the completion of 42 credits, comprised of the following:

| Course  | Title  | Credits |
|---|--|---------|
| <b>Core Requirements</b>                                      |  |         |
| MASY1-GC 1200   | Managing in a Global Economy                     | 3       |
| MASY1-GC 1210   | Quantitative Models for Decision-Makers          | 3       |
| MASY1-GC 1220   | Financial Management                             | 3       |
| MASY1-GC 1230   | Strategic Marketing                              | 3       |
| MASY1-GC 1240   | Information Technology & Data Analytics          | 3       |
| MASY1-GC 1250   | Project Management in The Information Age        | 3       |
| MASY1-GC 1260   | Research Process & Methodology                   | 3       |
| MASY1-GC 3310   | Strategic Management of Technological Innovation | 3       |
| <b>Concentrations</b>   |  |         |
| Select four courses from one of the following concentrations: |  | 12      |
| Database Technologies   |  |         |
| Enterprise Risk Management                                    |  |         |
| Strategy and Leadership                                       |  |         |
| Systems Management  |  |         |
| <b>Electives</b>  |  |         |
| Select one of the following:                                  |  | 3       |
| MASY1-GC 3255   | Business Analysis in the Enterprise              |         |
| MASY1-GC 5000   | Special Topics:                                  |         |
| MASY1-GC 3910   | Internship                                       |         |
| <b>Capstone</b>   |  |         |
| Select one of the following:                                  |  | 3       |
| MASY1-GC 4000   | Research Project: Thesis                         |         |
| MASY1-GC 4100   | Applied Project                                  |         |

|                      |                               |           |
|----------------------|-------------------------------|-----------|
| MASY1-<br>GC 4200    | Innovation & Entrepreneurship |           |
| <b>Total Credits</b> |                               | <b>42</b> |

## Concentrations

### Database Technologies

| Course                           | Title                                      | Credits |
|----------------------------------|--|---------|
| Select four of the following: 12 |  |         |
| MASY1-<br>GC 3220                | Information Security Management            |         |
| MASY1-<br>GC 3500                | Database Design & Management               |         |
| MASY1-<br>GC 3505                | Data Process and Structure                 |         |
| MASY1-<br>GC 3510                | Data Mining and Data Warehousing           |         |
| MASY1-<br>GC 3520                | Database Applications                      |         |
| MASY1-<br>GC 3525                | Advanced Database Applications             |         |
| MASY1-<br>GC 3540                | Database Technologies for Web Applications |         |

### Enterprise Risk Management

| Course                           | Title                                     | Credits |
|----------------------------------|---|---------|
| Select four of the following: 12 |   |         |
| MASY1-<br>GC 3020                | Enterprise Risk: Assessment & Mitigation  |         |
| MASY1-<br>GC 3215                | Information Systems Auditing              |         |
| MASY1-<br>GC 3220                | Information Security Management           |         |
| MASY1-<br>GC 3600                | Operational & Financial Risk Analysis     |         |
| MASY1-<br>GC 3605                | Financial Services & Trading Institutions |         |
| MASY1-<br>GC 3615                | Crisis Management & Business Continuity   |         |

### Strategy and Leadership

| Course                           | Title                                   | Credits |
|----------------------------------|---|---------|
| Select four of the following: 12 |   |         |
| MASY1-<br>GC 3300                | Technology Team Leadership              |         |
| MASY1-<br>GC 3305                | Knowledge Management                    |         |
| MASY1-<br>GC 3325                | Business Strategy & Ethics              |         |
| MASY1-<br>GC 3330                | Managing Complex Change Initiatives     |         |
| MASY1-<br>GC 3335                | Strategic Communications                |         |
| MASY1-<br>GC 3615                | Crisis Management & Business Continuity |         |

## Systems Management

| Course                           | Title  | Credits |
|----------------------------------|--|---------|
| Select four of the following: 12 |  |         |
| MASY1-<br>GC 3010                |  |         |
| MASY1-<br>GC 3210                | Systems Development & Analysis                 |         |
| MASY1-<br>GC 3220                | Information Security Management                |         |
| MASY1-<br>GC 3245                | Application,Architecture Design, & Development |         |
| MASY1-<br>GC 3250                | Enterprise Application Integration             |         |
| MASY1-<br>GC 3500                | Database Design & Management                   |         |
| MASY1-<br>GC 3530                | Object-Oriented Systems Design                 |         |

## Sample Plan of Study Database Technologies

| Course                        | Title  | Credits   |
|-------------------------------|--|-----------|
| <b>1st Semester/Term</b>      |  |           |
| MASY1-GC 1200                 | Managing in a Global Economy                     | 3         |
| MASY1-GC 1210                 | Quantitative Models for Decision-Makers          | 3         |
| MASY1-GC 1230                 | Strategic Marketing                              | 3         |
| MASY1-GC 1240                 | Information Technology & Data Analytics          | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>2nd Semester/Term</b>      |  |           |
| MASY1-GC 1250                 | Project Management in The Information Age        | 3         |
| MASY1-GC 1220                 | Financial Management                             | 3         |
| Concentration Elective 1 of 4 |  | 3         |
| Concentration Elective 2 of 4 |  | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>3rd Semester/Term</b>      |  |           |
| MASY1-GC 1260                 | Research Process & Methodology                   | 3         |
| MASY1-GC 3310                 | Strategic Management of Technological Innovation | 3         |
| Concentration Elective 3 of 4 |  | 3         |
| Concentration Elective 4 of 4 |  | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>4th Semester/Term</b>      |  |           |
| Capstone                      |  | 3         |
| Elective                      |  | 3         |
| <b>Credits</b>                |  | <b>6</b>  |
| <b>Total Credits</b>          |  | <b>42</b> |

## Enterprise Risk Management

| Course                        | Title                                     | Credits   |
|-------------------------------|---|-----------|
| <b>1st Semester/Term</b>      |   |           |
| MASY1-GC 1200                 | Managing in a Global Economy              | 3         |
| MASY1-GC 1210                 | Quantitative Models for Decision-Makers   | 3         |
| MASY1-GC 1230                 | Strategic Marketing                       | 3         |
| MASY1-GC 1240                 | Information Technology & Data Analytics   | 3         |
| <b>Credits</b>                |   | <b>12</b> |
| <b>2nd Semester/Term</b>      |   |           |
| MASY1-GC 1250                 | Project Management in The Information Age | 3         |
| MASY1-GC 1220                 | Financial Management                      | 3         |
| Concentration Elective 1 of 4 |   | 3         |

|                               |  |           |
|-------------------------------|--|-----------|
| Concentration Elective 2 of 4 |  | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>3rd Semester/Term</b>      |  |           |
| MASY1-GC 1260                 | Research Process & Methodology                   | 3         |
| MASY1-GC 3310                 | Strategic Management of Technological Innovation | 3         |
| Concentration Elective 3 of 4 |  | 3         |
| Concentration Elective 4 of 4 |  | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>4th Semester/Term</b>      |  |           |
| Capstone                      |  | 3         |
| Elective                      |  | 3         |
| <b>Credits</b>                |  | <b>6</b>  |
| <b>Total Credits</b>          |  | <b>42</b> |

## Strategy and Leadership

| Course                        | Title  | Credits   |
|-------------------------------|--|-----------|
| <b>1st Semester/Term</b>      |  |           |
| MASY1-GC 1200                 | Managing in a Global Economy                     | 3         |
| MASY1-GC 1210                 | Quantitative Models for Decision-Makers          | 3         |
| MASY1-GC 1230                 | Strategic Marketing                              | 3         |
| MASY1-GC 1240                 | Information Technology & Data Analytics          | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>2nd Semester/Term</b>      |  |           |
| MASY1-GC 1250                 | Project Management in The Information Age        | 3         |
| MASY1-GC 1220                 | Financial Management                             | 3         |
| Concentration Elective 1 of 4 |  | 3         |
| Concentration Elective 2 of 4 |  | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>3rd Semester/Term</b>      |  |           |
| MASY1-GC 1260                 | Research Process & Methodology                   | 3         |
| MASY1-GC 3310                 | Strategic Management of Technological Innovation | 3         |
| Concentration Elective 3 of 4 |  | 3         |
| Concentration Elective 4 of 4 |  | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>4th Semester/Term</b>      |  |           |
| Capstone                      |  | 3         |
| Elective                      |  | 3         |
| <b>Credits</b>                |  | <b>6</b>  |
| <b>Total Credits</b>          |  | <b>42</b> |

## Systems Management

| Course                        | Title  | Credits   |
|-------------------------------|--|-----------|
| <b>1st Semester/Term</b>      |  |           |
| MASY1-GC 1200                 | Managing in a Global Economy                     | 3         |
| MASY1-GC 1210                 | Quantitative Models for Decision-Makers          | 3         |
| MASY1-GC 1230                 | Strategic Marketing                              | 3         |
| MASY1-GC 1240                 | Information Technology & Data Analytics          | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>2nd Semester/Term</b>      |  |           |
| MASY1-GC 1250                 | Project Management in The Information Age        | 3         |
| MASY1-GC 1220                 | Financial Management                             | 3         |
| Concentration Elective 1 of 4 |  | 3         |
| Concentration Elective 2 of 4 |  | 3         |
| <b>Credits</b>                |  | <b>12</b> |
| <b>3rd Semester/Term</b>      |  |           |
| MASY1-GC 1260                 | Research Process & Methodology                   | 3         |
| MASY1-GC 3310                 | Strategic Management of Technological Innovation | 3         |
| Concentration Elective 3 of 4 |  | 3         |
| Concentration Elective 4 of 4 |  | 3         |
| <b>Credits</b>                |  | <b>12</b> |

|                          |   |
|--------------------------|---|
| <b>4th Semester/Term</b> |   |
| Capstone                 | 3 |
| Elective                 | 3 |
| <b>Credits</b>           |   |
| <b>6</b>                 |   |
| <b>Total Credits</b>     |   |
| <b>42</b>                |   |

## Learning Outcomes

Upon successful completion of the program, graduates will:

1. Utilize technology to solve business problems and satisfy business needs.
2. Propose technology solutions to support the business functions of an organization.
3. Integrate economic, financial and marketing principles to lead and manage technology initiatives.
4. Apply data management, business analytics, risk management, and systems development best practices to support technology initiatives.
5. Apply project management practices to manage technology projects.
6. Create business models to support technology initiatives.

## Policies

### NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

### School of Professional Studies Policies

Additional academic policies can be found on the School of Professional Studies academic policy pag (<https://bulletins.nyu.edu/graduate/professional-studies/academic-policies/>)e.