

B.S. in Information Systems
Degree Map
 Introduction

Degree Requirements

| | |
|--------------------------|-----------------|
| General Education | 36 to 42 |
| <i>Required Core</i> | 12 |
| <i>Flexible Core</i> | 18 |
| <i>College Option</i> | 6 to 12 |
| Required Courses | 48 |
| <i>IS Core</i> | 33 |
| <i>Track</i> | 15 |
| Free Electives | 30 to 36 |
| Total | 120 |

The requirements above lists the credits in each of the categories. While students transfer 24 or more credits to CUNY SPS, this degree map has been constructed to show the full curriculum.

Notes:

- Required number of College Option credits and free electives required will be based on the transfer credit evaluation. In general, students will be required to complete College Option credits and free electives as follows:

| Transfer with | College Option Credits | Free Elective Credits |
|----------------------|-------------------------------|------------------------------|
| Associate Degree | 6 | 36 |
| More Than 30 Credits | 9 | 33 |
| 30 or Fewer Credits | 12 | 30 |

- Students who transfer a course that is an equivalent for any part of the curriculum will not be required to repeat the course.
- Students who take a course at CUNY SPS (or transfers a course) that satisfies both an Information Systems requirement and General Education requirement will have additional credits added to the required free electives.

General Education Key

EC - English Composition
 MQR - Mathematical and Quantitative
 LPS - Life and Physical Sciences
 WCGI - World Cultures and Global Issues
 USED - U.S. Experience in Its Diversity
 CE - Creative Expression
 IS - Individual and Society
 SW - Scientific World
 CO - College Option

B.S. in Information Systems: Management Track

Term One

| Course | Prerequisite | Satisfies | Pathways | Credits |
|---|--------------|-----------|----------|---------|
| IS 200 - Foundations of Information Systems | None | IS Core | | 3 |
| College Option 1 | | Gen. Ed. | CO | 3 |
| Creative Expression | | Gen. Ed. | CE | 3 |
| ENG 101 - College Writing I | None | Gen. Ed. | EC | 3 |
| Mathematics and Quantitative Reasoning | | Gen. Ed. | MQR | 3 |

Semester Total 15

Term Two

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|-----------------------|-----------|----------|---------|
| IS 205 - IT Infrastructure and Support | None | IS Core | | 3 |
| College Option 2 | | Gen. Ed. | CO | 3 |
| ENG 102 - College Writing II | ENG 101 or equivalent | Gen. Ed. | EC | 3 |
| Life and Physical Science | | Gen. Ed. | LPS | 3 |
| Individual and Society | | Gen. Ed. | IS | 3 |

Semester Total 15

Term Three

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|---------------------------------|-----------|----------|---------|
| College Option 3 | | Gen. Ed. | CO | 3 |
| PROM 210 - Project Management | CIS 101 or IS 200 | IS Core | | 3 |
| US Experience in its Diversity | | Gen. Ed. | USED | 3 |
| World Cultures and Global Issues | | Gen. Ed. | WCGI | 3 |
| IS 250 - Computer and Network Security | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |

Semester Total 15

Term Four

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|---------------------------------|-----------|----------|---------|
| College Option 4 | | Gen. Ed. | CO | 3 |
| Flexible Core (TBD by Student) | | Gen. Ed. | TBD | 3 |
| Scientific World | | Gen. Ed. | SW | 3 |
| IS 260 - Networks and Business Data Communication | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |
| IS 300 - Enterprise Architectures and Applications | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |

Semester Total 15

Term Five

| Course | Prerequisite | Satisfies | Pathways | Credits |
|---|---------------------------------|------------------|----------|---------|
| IS 320 - Systems Analysis and Design | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |
| IS 350 - IS Strategy, Management, and Acquisition | IS 300 | IS Core | | 3 |
| BUS 305 Accounting Fundamentals | Any 200-level Math Course | Management Track | | 3 |
| Free Elective | | Free Elective | | 6 |

Semester Total 15

Term Six

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|---------------------------------|------------------|----------|---------|
| BUS 306 - Managerial Accounting | BUS 305 | Management Track | | 3 |
| Free Elective | | Free Elective | | 6 |
| IS 326 - E-Commerce for Information Systems | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |
| IS 330 - Logistics and Supply Chain Management | None | Management Track | | 3 |

Semester Total 15

Term Seven

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|---------------------------------|------------------|----------|---------|
| BUS 315 - Principles of Marketing | None | Management Track | | 3 |
| Free Elective | | Free Elective | | 6 |
| IS 374 - Business Process Design and Workflow Analysis | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |
| BUS 321 - Human Resources Management | None | Management Track | | 3 |

Semester Total 15

Term Eight

| Course | Prerequisite | Satisfies | Pathways | Credits |
|----------------------|--|---------------|----------|---------|
| IS 499 - IS Capstone | Senior status & permission from the academic director. | IS Core | | 3 |
| Free Elective | | Free Elective | | 12 |

Semester Total 15

Program Total 120

B.S. in Information Systems: Technical Track

Term One

| Course | Prerequisite | Satisfies | Pathways | Credits |
|---|--------------|-----------|----------|---------|
| IS 200 - Foundations of Information Systems | None | IS Core | | 3 |
| College Option 1 | | Gen. Ed. | CO | 3 |
| Creative Expression | | Gen. Ed. | CE | 3 |
| ENG 101 - College Writing I | None | Gen. Ed. | EC | 3 |
| Mathematics and Quantitative Reasoning | | Gen. Ed. | MQR | 3 |

Semester Total 15

Term Two

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|-----------------------|-----------|----------|---------|
| College Option 2 | | Gen. Ed. | CO | 3 |
| ENG 102 - College Writing II | ENG 101 or equivalent | Gen. Ed. | EC | 3 |
| Life and Physical Science | | Gen. Ed. | LPS | 3 |
| Individual and Society | | Gen. Ed. | IS | 3 |
| IS 205 - IT Infrastructure and Support | None | IS Core | | 3 |

Semester Total 15

Term Three

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|---------------------------------|-----------|----------|---------|
| College Option 3 | | Gen. Ed. | CO | 3 |
| PROM 210 - Project Management | CIS 101 or IS 200 | IS Core | | 3 |
| US Experience in its Diversity | | Gen. Ed. | USED | 3 |
| World Cultures and Global Issues | | Gen. Ed. | WCGI | 3 |
| IS 250 - Computer and Network Security | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |

Semester Total 15

Term Four

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|---------------------------------|-----------|----------|---------|
| College Option 4 | | Gen. Ed. | CO | 3 |
| Flexible Core (TBD by Student) | | Gen. Ed. | TBD | 3 |
| Scientific World | | Gen. Ed. | SW | 3 |
| IS 260 - Networks and Business Data Communication | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |
| IS 300 - Enterprise Architectures and Applications | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |

Semester Total 15

Term Five

| Course | Prerequisite | Satisfies | Pathways | Credits |
|---|---------------------------------|-----------------|----------|---------|
| IS 320 - Systems Analysis and Design | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |
| IS 350 - IS Strategy, Management, and Acquisition | IS 300 | IS Core | | 3 |
| IS 210 - Software Application Programming 1 | None | Technical Track | | 3 |
| Free Elective | | Free Elective | | 6 |

Semester Total 15

Term Six

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|---------------------------------|-----------------|----------|---------|
| IS 326 - E-Commerce for Information Systems | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |
| IS 211 - Software Application Programming 2 | IS 210 | Technical Track | | 3 |
| IS 361 - Database Architecture and Programming | None | Technical Track | | 3 |
| Free Elective | | Free Elective | | 6 |

Semester Total 15

Term Seven

| Course | Prerequisite | Satisfies | Pathways | Credits |
|--|---------------------------------|-----------------|----------|---------|
| IS 374 - Business Process Design and Workflow Analysis | IS 200 (or BUS 325 and CIS 101) | IS Core | | 3 |
| IS 362 - Data Acquisition and Management | IS 210 and IS 361 | Technical Track | | 3 |
| IS 380 - Geographic Information Systems | IS 200 (or BUS 325 and CIS 101) | Technical Track | | 3 |
| Free Elective | | Free Elective | | 6 |

Semester Total 15

Term Eight

| Course | Prerequisite | Satisfies | Pathways | Credits |
|----------------------|--|---------------|----------|---------|
| IS 499 - IS Capstone | Senior status & permission from the academic director. | IS Core | | 3 |
| Free Elective | | Free Elective | | 12 |

Semester Total 15

Program Total 120