B.S. in Business and Information Systems

(120 credits minimum)

First Year		
1st Semester		**Credits**
CS 100	Roadmap to Computing	3
Science Literacy GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/natural-science-ger/)		3
ENGL 101	English Composition: Introduction to Academic Writing	3
MATH 138	General Calculus I [*]	3
IS 117	Introduction to Website Development	3
FYS SEM	First-Year Student Seminar	0
	Term Credits	**15**
2nd Semester		
ECON 201	Economics	3
IS 265	Introduction to Information Systems	3
ENGL 102	English Composition: Introduction to Writing for Research	3
ACCT 117 or ACCT 115	Principles Of Fin Accountng or Fundamentals of Financial Accounting	3
Science Literacy with Lab GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/natural-science-ger/)		4
	Term Credits	**16**
Second Year		
1st Semester		
MATH 105	Elementary Probability and Statistics [1]	3
IS 350	Computers, Society and Ethics	3
IT 310	E-Commerce Technology	3
IS 247	Designing the User Experience	3
General Elective 1		3
	Term Credits	**15**
2nd Semester		
General Elective 2		3
IS 218	Building Web Applications	3
IS 344	Computing Applications in Business	3
History and Humanities GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/)		3
YWCC 207	Computing & Effective Com	1
IS 375	Discovering User Needs for UX	3
	Term Credits	**16**
Third Year		
1st Semester		
MGMT 216	Business Data Analytics	3
FIN 218	Financial Markets and Institutions	3
IS 390	Requirements Analysis and Systems Design	3
IS 331	Database Design Management and Applications	3
COM 312 or COM 313	Oral Presentations or Technical Writing	3
	Term Credits	**15**
2nd Semester		
HRM 301	Organizational Behavior	3
FIN 315	Fundamentals of Corporate Finance	3

History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/)		3
IT 120	Introduction to Network Technology	3
General Elective 3 [2]		3
YWCC 307	Professional Dev in Computing	1
	Term Credits	**16**
Fourth Year		
1st Semester		
MRKT 330	Principles of Marketing	3
MGMT 391	International Business	3
IE 492 or ENTR 210	Engineering Management or Introduction to Entrepreneurship	3
IS 455	IS Mgmt & Business Processes	3
Humanities and Social Science Senior Seminar GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/)		3
	Term Credits	**15**
2nd Semester		
IS 465	Advanced Information Systems	3
Select one of the following:		3
IT 491	IT Capstone Project	
IS 491	Senior Project - IS	
General Elective 4 [2]		3
General Elective 5 [2]		3
	Term Credits	**12**
	Total Credits	**120**

* Students can also take MATH 111 (Calculus I) or MATH 101 (Foundations of Mathematics for the Liberal Arts) instead of MATH 138.

1 Math: We highly recommend MATH 111 Calculus I and MATH 333 Probability and Statistics to replace MATH 138 General Calculus I and MATH 105 Elementary Probability and Statistics, particularly for students contemplating advanced or graduate work in computing. We also encourage you to take MATH 112 Calculus II and one or more advanced statistics courses as free electives, such as MATH 341 Statistical Methods II or MATH 344 Regression Analysis, both of which require MATH 333 Probability and Statistics as a prerequisite.

2 Independent Study (optionally leading to the Undergraduate Thesis Option): We encourage you to consider an independent study (IS 488) as part of your electives as juniors and seniors. You could then continue with an Undergraduate Thesis (IS 489), which optionally can substitute for IS 491 or IT 491. The thesis option is explained further on the Informatics Department web site. Please consult your advisor as early in your Moved from Y4S2 Moved to Y4S1 Old GUR studies as possible to plan appropriately for all of these opportunities

Curriculum Overview

Following is an overview of the curriculum.

Code	Title	Credits
Core Information Systems Courses		
IS 265	Introduction to Information Systems	3
IT 310	E-Commerce Technology	3
IS 247	Designing the User Experience	3
IS 350	Computers, Society and Ethics [1]	3
IS 344	Computing Applications in Business	3
IS 390	Requirements Analysis and Systems Design	3
IS 375	Discovering User Needs for UX	3
IS 455	IS Mgmt & Business Processes	3
IS 465	Advanced Information Systems	3
IE 492	Engineering Management	3
or ENTR 210	Introduction to Entrepreneurship	
IS 491	Senior Project - IS	3
Core Business Courses		

ACCT 117	Principles Of Fin Accountng	3
ECON 201	Economics	3
MGMT 216	Business Data Analytics	3
FIN 218	Financial Markets and Institutions	3
HRM 301	Organizational Behavior	3
FIN 315	Fundamentals of Corporate Finance	3
MRKT 330	Principles of Marketing	3
MGMT 391	International Business	3
Technical Foundation Courses		
CS 100	Roadmap to Computing	3
IS 117	Introduction to Website Development	3
IS 218	Building Web Applications	3
IS 331	Database Design Management and Applications	3
IT 120	Introduction to Network Technology	3
Career Building Courses		
YWCC 107	Computing as a Career	1
YWCC 207	Computing & Effective Com	1
YWCC 307	Professional Dev in Computing	1

[1] Students may take IS 350 Computers, Society and Ethics

See the **General Education Requirements** "Refer to the General Education Requirements for specific information for GER courses"

This curriculum represents the maximum number of credits per semester for which a student is advised to register. A full-time credit load is 12 credits. First-year students are placed in a curriculum that positions them for success which may result in additional time needed to complete curriculum requirements. Continuing students should consult with their academic advisor to determine the appropriate credit load.