

## Articulation Agreement

**Agreement initiated by:** City University of New York, School of Professional Studies

**Sending College:** Queensborough Community College

Program: Computer Information Systems

Degree: A.A.S.

**Receiving College:** CUNY School of Professional Studies (SPS)

Department: Computer Information Systems and Analytics

Program: Information Systems

Degree: B.S.

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### **ADMISSION REQUIREMENTS FOR SENIOR COLLEGE PROGRAM**

This articulation agreement puts in a place a “2+2” arrangement between the programs identified above. Students who complete their A.A.S. degree at QCC (referred to as a “two-year degree”), and then continue full-time in SPS’s BSIS program, can complete their B.S. in Information Systems (general IS track) within two years. The acquired skills and knowledge gained from the culmination of courses required for the A.A.S. degree programs will be deemed to have fulfilled the General Education Pathways requirement for SPS (with the exception of the College Options courses) as well as a some major and elective courses.

Graduates of the A.A.S., Computer Information Systems degree from QCC will qualify for admission into the SPS Bachelor of Science degree in Information Systems if they have maintained a minimum overall GPA of 2.5 and are in good standing at QCC. Applicants will follow the standard admissions process, which includes completing a transfer application, SPS’s supplemental application form measuring readiness for online education, a statement of interest in the information systems program, and a personal interview.

QCC graduates will be awarded 60 transfer credits toward the bachelor’s degree based on the current (fall 2014) Information Systems curriculum. Should that curriculum change, it will be necessary to reevaluate the transfer agreement. Courses in math and English require a grade of C or better for transfer in accordance with current University policy. In addition, all courses in the major require a grade of C or better for transfer. Upon matriculation into the B.S. program in Information Systems, students will be required to complete the School of Professional Studies Online Orientation Program and must fulfill elective and major requirements specified on the following pages.

**Total transfer credits granted toward the baccalaureate degree: 60.**

**Total additional credits required at the senior college to complete baccalaureate degree: 60.**

### **COURSE OUTLINE AND TRANSFER REQUIREMENTS:**

#### **SENIOR COLLEGE UPPER DIVISION COURSES REMAINING FOR BACCALAUREATE DEGREE**

##### **Prerequisites and Major Courses**

The interdisciplinary curriculum includes General Education courses and a 60-credit major, including concentrations, allowing students to define an area of special interest in the broader field of Information Systems. General Education requirements will incorporate the principles outlined by CUNY’s Pathways to Degree Completion initiative, which were designed to ensure transferability as well as a broad-based educational foundation.

To meet requirements, students must complete a total of 120 credits, outlined in the tables 3 - 6 below. These table list the courses required for completing the B.S. in Information Systems.

**Table 1: Queensborough Community College - A.A.S., Computer Information Systems (CIS) Requirements**

Course no.	Course title	Common core category	Credits
<b>Common core requirements</b>			
EN-101	English Composition I	I.A	3
EN-102	English Composition II	I.A	3
MA-260 <i>or</i> MA-321 <i>or</i> MA-128	Pre-calculus & Elements of Calculus for Bus. Students <i>or</i> Mathematics in Contemporary Society <i>or</i> Calculus for Technical and Business Students	I.B	4
Laboratory science		I.C	3-4
ECON-101 <i>or</i> ECON-102	Introduction to Macroeconomics <i>or</i> Introduction to Microeconomics	I.D	3
Humanities elective		II.A/II.B/II.C/II.D/II.E	3
Social Sciences or History elective (HI-100 series)		II.A/II/B/II.D	3
<b>Subtotal</b>			<b>22-23</b>
<b>Major requirements</b>			
BU-101	Principles of Accounting I		4
BU-201	Business Organization and Management		3
BU-203	Principles of Statistics		3
BU-500	Introduction to Microcomputer Applications		3
BU-509	Projects in Data Processing		3
BU-520	Introduction to Computer Programming for Business		3
<b>Subtotal</b>			<b>19</b>
<b>Track A</b>	<b>Computer Programming</b>		
BU-502	COBOL Programming		3
BU-504	Systems Analysis and Design with Business Applications		3
BU-521	Business Programming with Objects		4
BU-522	Business Programming with Visual Languages		3
BU-532	Microcomputer Operating Systems and Utility Software		3
	Business elective		2-3
<b>Subtotal</b>			<b>18-19</b>
<b>Track B</b>	<b>Microcomputer Applications Software</b>		
BU-508	Database Management Systems		3
BU-530	Spreadsheet Applications		3
BU-532	Microcomputer Operating Systems and Utility Software		3
BU-534	Local Area Network Management		3
BU-859	Desktop Publishing (Software)		3
	Business elective		3-4
<b>Subtotal</b>			<b>18-19</b>
<b>Additional major requirements</b>			
One science lab. course (STEM variant in common core satisfies this requirement): choose from BI-132, BI-171; CH-102, CH-111, CH-121; ET-842; or PH-112.			0-1
<b>Subtotal</b>			<b>0-1</b>
<b>Total credits required</b>			<b>60</b>
<i>All students must complete two (2) WI designated classes to fulfill degree requirements.</i>			

**Table 2: School of Professional Studies – B.S. in Computer Information Systems Requirements**

<b>GENERAL EDUCATION</b>			<b>36</b>
English Composition			6
Mathematical and Quantitative Reasoning			3
Life and Physical Sciences			3
World Cultures and Global Issues			3
U.S. Experience in its Diversity			3
Creative Expression			3
Individual and Society			3
Scientific World			3
TBD by student			3
COM 110 - Digital Literacy			3
Choice among QUAN 201, COM 210 or PLA 300			3
<b>REQUIRED MAJOR COURES</b>			<b>39</b>
Foundations of Information Systems			3
Networks and Business Data Communication			3
Introduction to Statistics			3
Computer and Network Security			3
Software Application Programming 1			3
Software Application Programming 2			3
Data Acquisition and Management			3
Database Architecture and Programming			3
Systems Analysis and Design			3
IS Strategy, Management, and Acquisition			3
Enterprise Architectures and Applications			3
Project Management			3
IS Capstone			3
<b>TRACK REQUIREMENT - <i>Select either GIS or MIS</i></b>			<b>24</b>
<b>General Information Systems</b>			<b>Management Information Systems</b>
IT Infrastructure and Support	3	Business Process Design and Workflow Analysis	3
IS Electives	9	Introduction to Data Science	3
Context Courses	12	Discrete Mathematics and Linear Algebra	3
		E-Commerce for Information Systems	3
		Managerial Accounting	3
		Logistics and Supply Chain Management	3
		Principles of Marketing	3
		Strategic Human Resource Management	3
<b>ELECTIVES*</b>			<b>21</b>
Computer Forensics			3
Geographic Information Systems			3
Health Information Management Systems			3
Human-Computer Interaction			3
IT Infrastructure and Support			3
Principles of Informatics			3
Social Media			3
Universal Design and Assistive Technology			3
Web Programming and Mobile App Development			3
IS Special Topics			3
IS Independent Study			1-3
IS Internship			1-3
<b>TOTAL CREDITS</b>			<b>120</b>

\*All undergraduate courses offered through the SPS may be taken to fulfill the free elective requirement. In addition, courses from outside of the SPS are eligible as well, but must adhere to the policies and procedures for transfer credit set forth by the SPS.

**Table 3: Course Equivalencies - Microcomputer Applications Software to General Information Systems Track**

<b>Course Type</b>	<b>QCC Course</b>	<b>QCC Credits</b>	<b>SPS Course</b>	<b>SPS Credits</b>
Gen.Ed.	ECON 101 or ECON 101 (I.D.)	3		
Gen.Ed.	English (I.A.)	6		
Gen.Ed.	Humanities elective (II.A/II.B/II.C/II.D/II.E)	3		
Gen.Ed.	Laboratory science (I.C.)	4		
Gen.Ed.	Math (I.B.)	4		
Gen.Ed.	Social Sciences or History elective (II.A/II.B/II.D)	3		
Gen.Ed.	None		College Option Courses	6
Major	None		Computer and Network Security	3
Major	BU-101 Principles of Accounting I	4	Context Course 1	
Major	BU-201 Business Organization and Management	3	Context Course 2	
Major	Business elective	3	Context Course 3	
Major	None		Context Course 4	3
Major	BU-508 - Database Management Systems	3	Data Acquisition and Management	
Major	None		Database Architecture and Programming	3
Major	None		Enterprise Architectures and Applications	3
Major	None		Foundations of Information Systems	3
Major	BU-203 Principles of Statistics	3	Introduction to Statistics	
Major	None		IS Capstone	3
Major	BU-509 Projects in Data Processing	3	IS Elective 1	
Major	BU-520 Introduction to Computer Programming for Business	3	IS Elective 2	
Major	BU-532 - Microcomputer Operating Systems and Utility Software	3	IS Elective 3	
Major	None		IS Strategy, Management, and Acquisition	3
Major	BU-534 - Local Area Network Management	3	Networks and Business Data Communication	
Major	None		Project Management	3
Major	None		Software Application Programming 1	3
Major	None		Software Application Programming 2	3
Major	None		Systems Analysis and Design	3
Major	None		IT Infrastructure and Support	3
Elective	BU-500 Introduction to Microcomputer Applications	3	Free Elective	
Elective	BU-530 - Spreadsheet Applications	3	Free Elective	
Elective	BU-859 - Desktop Publishing (Software)	3	Free Elective	
Elective	None		Free Elective	18
<b>TOTAL</b>		<b>60</b>	<b>TOTAL</b>	<b>60</b>

**Table 4: Course Equivalencies - Microcomputer Applications Software to Management Information Systems Track**

<b>Course Type</b>	<b>QCC Course</b>	<b>QCC Credits</b>	<b>SPS Course</b>	<b>SPS Credits</b>
Gen. Ed.	None		College Option Courses	6
Gen.Ed.	ECON 101 or ECON 101 (I.D.)	3		
Gen.Ed.	English (I.A.)	6		
Gen.Ed.	Humanities elective (II.A/II.B/II.C/II.D/II.E)	3		
Gen.Ed.	Laboratory science (I.C.)	4		
Gen.Ed.	Math (I.B.)	4		
Gen.Ed.	Social Sciences or History elective (II.A/II/B/II.D)	3		
Major	None		Computer and Network Security	3
Major	BU-508 - Database Management Systems	3	Data Acquisition and Management	
Major	None		Database Architecture and Programming	3
Major	None		Enterprise Architectures and Applications	3
Major	None		Foundations of Information Systems	3
Major	BU-203 Principles of Statistics	3	Introduction to Statistics	
Major	None		IS Capstone	3
Major	None		IS Strategy, Management, and Acquisition	3
Major	None		Networks and Business Data	
Major	BU-534 - Local Area Network Management	3	Communication	
Major	None		Project Management	3
Major	None		Software Application Programming 1	3
Major	None		Software Application Programming 2	3
Major	None		Systems Analysis and Design	3
Major	BU-101 Principles of Accounting I	4		
Major	BU-201 Business Organization and Management	3		
Major	Business elective	3		
Major	None		Business Process Design and Workflow Analysis	3
Major	None		Introduction to Data Science	3
Major	None		Discrete Mathematics and Linear Algebra	3
Major	None		E-Commerce for Information Systems	3
Major	None		Managerial Accounting	3
Major	None		Logistics and Supply Chain Management	3
Major	None		Principles of Marketing	3
Major	None		Strategic Human Resource Management	3
Major	BU-509 Projects in Data Processing	3	Free Elective	
Major	BU-520 Introduction to Computer Programming for Business	3	Free Elective	
Major	BU-532 - Microcomputer Operating Systems and Utility Software	3	Free Elective	
Elective	BU-500 Introduction to Microcomputer Applications	3	Free Elective	
Elective	BU-530 - Spreadsheet Applications	3	Free Elective	
Elective	BU-859 - Desktop Publishing (Software)	3	Free Elective	
<b>TOTAL</b>		<b>60</b>	<b>TOTAL</b>	<b>60</b>

**Table 5: Course Equivalencies – Computer Programming to General Information Systems Track**

<b>Course Type</b>	<b>QCC Course</b>	<b>QCC Credits</b>	<b>SPS Course</b>	<b>SPS Credits</b>
Gen.Ed.	ECON 101 or ECON 101 (I.D.)	3		
Gen.Ed.	English (I.A.)	6		
Gen.Ed.	Humanities elective (II.A/II.B/II.C/II.D/II.E)	3		
Gen.Ed.	Laboratory science (I.C.)	4		
Gen.Ed.	Math (I.B.)	4		
Gen.Ed.	Social Sciences or History elective (II.A/II/B/II.D)	3		
Gen.Ed.	None		College Option Courses	6
Major	None		Computer and Network Security	3
Major	BU-101 Principles of Accounting I	4	Context Course 1	
Major	BU-201 Business Organization and Management	3	Context Course 2	
Major	Business elective	2	Context Course 3	
Major	None		Context Course 4	3
Major	None		Data Acquisition and Management	3
Major	None		Database Architecture and Programming	3
Major	None		Enterprise Architectures and Applications	3
Major	None		Foundations of Information Systems	3
Major	BU-203 Principles of Statistics	3	Introduction to Statistics	
Major	None		IS Capstone	3
Major	BU-509 Projects in Data Processing	3	IS Elective 1	
Major	BU-520 Introduction to Computer Programming for Business	3	IS Elective 2	
Major	BU-502 COBOL Programming	3	IS Elective 3	
Major	None		IS Strategy, Management, and Acquisition	3
Major	None		Networks and Business Data	
Major	None		Communication	3
Major	None		Project Management	3
Major	None		Software Application Programming 1	3
Major	BU-521 - Business Programming with Objects (C++)	4	Software Application Programming 2	
Major	BU-504 - Systems Analysis and Design with Business Applications	3	Systems Analysis and Design	
Major	None		IT Infrastructure and Support	3
Elective	BU-500 Introduction to Microcomputer Applications	3	Free Elective	
Elective	BU522 Business Programming with Visual Languages	3	Free Elective	
Elective	BU532 Microcomputer Operating Systems	3	Free Elective	
Elective	None		Free Elective	18
<b>TOTAL</b>		<b>60</b>	<b>TOTAL</b>	<b>60</b>

**Table 6: Course Equivalencies – Computer Programming to Management Information Systems Track**

<b>Course Type</b>	<b>QCC Course</b>	<b>QCC Credits</b>	<b>SPS Course</b>	<b>SPS Credits</b>
Gen.Ed.	ECON 101 or ECON 101 (I.D.)	3		
Gen.Ed.	English (I.A.)	6		
Gen.Ed.	Humanities elective (II.A/II.B/II.C/II.D/II.E)	3		
Gen.Ed.	Laboratory science (I.C.)	4		
Gen.Ed.	Math (I.B.)	4		
Gen.Ed.	Social Sciences or History elective (II.A/II.B/II.D)	3		
Gen.Ed.	None		College Option Courses	6
Major	None		Computer and Network Security	3
Major	BU-101 Principles of Accounting I	4	Free Elective	
Major	BU-201 Business Organization and Management	3	Free Elective	
Major	Business elective	2	Free Elective	
Major	None		Data Acquisition and Management	3
Major	None		Database Architecture and Programming	3
Major	None		Enterprise Architectures and Applications	3
Major	None		Foundations of Information Systems	3
Major	BU-203 Principles of Statistics	3	Introduction to Statistics	
Major	None		IS Capstone	3
Major	BU-509 Projects in Data Processing	3	Free Elective	
Major	BU-520 Introduction to Computer Programming for Business	3	Free Elective	
Major	BU-502 COBOL Programming	3	Free Elective	
Major	None		IS Strategy, Management, and Acquisition	3
Major	None		Networks and Business Data	
Major	None		Communication	3
Major	None		Project Management	3
Major	None		Software Application Programming 1	3
Major	BU-521 - Business Programming with Objects (C++)	4	Software Application Programming 2	
Major	BU-504 - Systems Analysis and Design with Business Applications	3	Systems Analysis and Design	
Major	None		Business Process Design and Workflow Analysis	3
Major	None		Introduction to Data Science	3
Major	None		Discrete Mathematics and Linear Algebra	3
Major	None		E-Commerce for Information Systems	3
Major	None		Managerial Accounting	3
Major	None		Logistics and Supply Chain Management	3
Major	None		Principles of Marketing	3
Major	None		Strategic Human Resource Management	3
Elective	BU-500 Introduction to Microcomputer Applications	3	Free Elective	
Elective	BU522 Business Programming with Visual Languages	3	Free Elective	
Elective	BU532 Microcomputer Operating Systems	3	Free Elective	
<b>TOTAL</b>		<b>60</b>	<b>TOTAL</b>	<b>60</b>

Procedures for evaluating the agreement, e.g., tracking the number of students who transfer under the articulation agreement and their success:


- The Academic Director and Chief Academic Officer from both programs will meet annually to review the articulation agreement. They will be expected to review student retention, progress to graduation, including transitions between prerequisite and follow-on courses, degree completion, and GPA. Modification or termination of this agreement requires the approval of the Chief Academic Officers of both institutions.
- Should the agreement be modified or terminated, the School of Professional Studies shall honor the terms granted to students who have already transferred into the B.S. in Information Systems for a period of four years or graduation, whichever comes first.
- The School of Professional Studies Registrar and the Information Systems Academic Director shall produce reports of the metrics identified above as well as those suggested in the University's Annual Performance Management Program, which will be circulated to the following groups:
  - **At SPS:** Dean, Associate Dean for Academic Affairs, Information Systems Consortial Faculty, Associate Dean for Administration and Finance, Director of Student Services, Director of Career Services, Director of Admissions and Advisement, and Director of Online Programs at the School of Professional Studies
  - **At QCC:** Chief Academic Officer, Academic Director, Director of Student Services, Director of Career Services, and Director of Admission and Advisement.

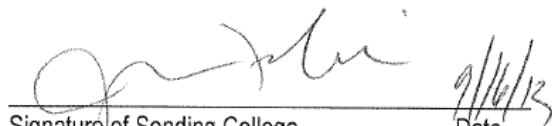
**Sending and receiving college procedures for publicizing agreement, e.g., college catalogs, transfer advisors, Websites**


The School of Professional Studies and the Queensborough Community College will publicize this opportunity for students in print and web-based materials and in marketing information. Additionally both institutions will provide information to their own recruitment staff members as well as staff at the University Office of Admission Services.

Effective Date: Fall 2014

**Signatures**

  
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 Signature of Sending College                      Date  
 Dr. Karen Steele, Vice President for Academic Affairs  
 Queensborough Community College at CUNY

  
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 Signature of Sending College                      Date  
 Dr. Jonas Falik, Chair, Business Department  
 Queensborough Community College at CUNY

  
 \_\_\_\_\_  
 Dean John Mogulescu                                      Date  
 Senior University Dean for Academic Affairs and  
 Dean, CUNY School of Professional Studies

  
 \_\_\_\_\_  
 Dr. George Otte    Date  
 Associate Dean for Academic Affairs  
 CUNY School of Professional Studies