

THE CITY UNIVERSITY OF NEW YORK
ARTICULATION AGREEMENT
between
QUEENSBOROUGH COMMUNITY COLLEGE
and
NEW YORK CITY COLLEGE OF TECHNOLOGY

A. SENDING AND RECEIVING INSTITUTIONS

<u>Sending Institution:</u>	Queensborough Community College (<u>QCC</u>)
Department:	Business Department
Program:	Computer Information Systems (CIS) Program
Degree:	Associate of Applied Science (A.A.S)
<u>Receiving Institution:</u>	New York City College of Technology (City Tech)
Department:	Computer Systems Technology
Program:	Computer Systems
Degree:	Bachelor of Technology (B. Tech)

B. REQUIREMENTS FOR SENIOR COLLEGE PROGRAM

1. Requirement for students wishing to transfer to NYC College of Technology's Bachelor of Technology degree in Computer Systems under this agreement:
 - a. Associate degree in Computer Information Systems (CIS).
 - b. GPA of 2.0 or above
2. C or better in all required computer courses related to the degree requirements Computer Information Systems (CIS)
3. If a grade less than a C is earned in the course(s) which is/are equivalent to the required prerequisite courses for the BTech track of choice, the student is required to repeat the required prerequisite course(s) at City Tech and to earn a grade of C or better.
4. Total transfer credits granted toward the baccalaureate degree: 60 credits
5. Total additional credits required at the senior college to complete baccalaureate degree: 60-61 credits.
6. Acceptance into this program will be under the requirements in effect at the time of admission and may be subject to such changes as shall be determined by NYC College of Technology's academic policies and curricula. To earn a baccalaureate degree, admitted students must earn a minimum of 60 credits, of which 34 must be taken in residence. Certification of graduation also requires a cumulative GPA of 2.0. This 2.0 GPA is also required in the major.

C. COURSE-TO-COURSE EQUIVALENCIES AND TRANSFER CREDIT AWARDED

Queensborough Community College Computer Information Systems (CIS)		NYC College of Technology Computer Systems		
Course Number & Title	Credits	Course Number & Title	Credits	Credits Awarded
COMMON CORE REQUIREMENTS				
Required Core 1A: ENGL 101 English Composition I	3	ENG 1101 English Composition I	3	3
Required Core 1A: ENGL102 English Composition II	3	ENG 1121 English Composition II	3	3
Required Core 1B: MA-114, MA260 or MA128	4	Mathematical and Quantitative Reasoning	3	3
Required Core 1C: Life and Physical Sciences: Select from 1C	3-4	Life and Physical Sciences	3	3
Flexible Core: ECON-101 Macroeconomics (IS) or ECON-102 Microeconomics (IS)	3	ECON 1101 Macroeconomics (USED) or ECON 1401 Microeconomics (IS)	3	3
Flexible Core 2A, 2B, 2C, 2D: Humanities elective ²	3	2A, 2B OR 2C (WCGI, USED, CE)	3	3
Flexible Core 2A, 2B, 2D or 2E: Social Science or history elective Recommended PSYC-101 (SW)	3	PSY1101 (IS) (if PSYC-101 taken at QCC) (WCGI, USED, IS, SW)	3	3
Sub-total	22-23		21	21
REQUIREMENTS FOR MAJOR				
BU-101 Principles of Accounting I	4	ACC 1101 Principles of Accounting	4	4
BU-201 Business Organization and Management	3	BUS 2425 Business Management	3	3
BU-203 Principles of Statistics	3	Can be applied to free elective	3	3
CIS-101 Introduction to Computers and Applications	3	CST1100 Introduction to Computer Systems	3	3
CIS-102 Computer Programming Fundamentals for Business	3	CST1101 Problem Solving with Computer Programming	3	3
CIS-152 Computer Programming for Business I	3	CST1201 Programming Fundamentals	3	3
CIS-153 Microcomputer Operating Systems & Utility Software	3	CST1215 Operating Systems Fundamentals	3	3
CIS-201 Local Area Network Management	3	CST2307 Networking Fundamentals	3	3
CIS-208 Database Management Systems	3	CST1204 Database Systems Fundamental	3	3
CIS-251 Analysis and Design of Systems Projects	3	CST2406 Introduction to Systems Analysis and Design	3	3
Sub-total	31	Sub-total	31	31
ELECTIVES				
CIS-204 Web Design – Recommended	3	CST2309 Web Programming I	3	3
CIS-254 Data Security for Business – Recommended	3	CST2410 Introduction to Computer Security	3	3
Subtotal	6	Subtotal	6	6
MAJOR ELECTIVES				
Laboratory Science ¹	0-1	Laboratory Science	1	1
		Free Elective	1	1
Total	60	Total	60	60

D. SENIOR COLLEGE COURSES REMAINING FOR BACCALAUREATE DEGREE

Course Number & Title	Credits
General Education Requirements (College Option)*	
COM 1330 (Effective Speaking, COM 1335 (Group Communication), or COM 1340 (Oral Interpretation of Literature). If a public speaking course has already been taken, then an advanced liberal arts and science course	3
One interdisciplinary (ID) liberal arts and science course	3
General Education	
6	
Remaining Requirements in Major	
<i>Prerequisites and Program Requirements</i>	
MAT 1375 Pre-calculus (SW) <i>*Students who have successfully completed the equivalent to this course at Queensborough CC are required to take an elective in the Pathways</i>	3
PSY 1101 Introduction to Psychology (IS)* <i>(If not taken at Queensborough CC)</i> <i>*If taken at Queensborough CC then take 2A or 2B or 2C or 2D or 2E to complete the Pathway Common Core</i>	3
MAT 2440 Discrete Structures and Algorithms I	3
MAT 2540 Discrete Structures and Algorithms II or MAT1475 Calculus I	3 or 4
PSY 2404 Personnel and Organizational Psychology	3
BUS 3525 Strategic Management	3
ENG 2575 Technical Writing	3
Subtotal	21-22
Computer Systems program-specific Degree Requirement and Electives	
Curriculum Requirements	
CST4800 Project Management	3
CST4900 Internship or CST4905	3
Complete One of Following Four Tracks (each track is 27 credits):	
Database	
CST3504 Database Design	3
CST2406 or CST3606**	3
CST3604 Quality Database Implementation	3
CST3613 Application Development with Databases	3
CST4704 Data Warehousing	3
CST4714 Database Administration	3
CST4724 Data On The Web	3
*Two Major Electives	6
Network and Security	
CS2405 or CST2415**	3
CST3507 Advanced Single-LAN Concepts	3
CST3607 Interconnectivity	3
CST3610 Network Security Fundamentals	3

CST4707 The LAN-Internet Connection	3
CST4710 Advanced Security Technologies	3
CST4715 Advanced Topics in System Administration	3
CST3523 Task Automation in System Administration	3
*One Major Elective	3
IT Operations	
CST2405 or CST2415**	3
CST3507 Advanced Single-LAN Concepts	3
CST3610 Network Security Fundamentals	3
CST3605 Virtualization	3
CST3615 Enterprise Applications	3
CST4700 IT Service Management	3
CST4714 Database administration	3
CST4709 Installing and Maintaining Web Servers	3
*One Major Elective	3
Software Development	
CST3513 Object-Oriented Programming	3
CST3519 Advanced Client Technology	3
CST3613 Application Development with Databases	3
CST3606 Object-Oriented Systems Analysis and Design	3
CST4708 Software Development and .NET Framework	3
CST2301 Multimedia and Mobile Device Programming**	3
CST4713 Dynamic Web Development: Servlets and JSP	3
*Two Major Electives	6
Total Major Requirements:	33
Subtotal	33
** If the courses was already taken at AAS level, take another BTech level elective	
*Major Electives	
CST 3520 Computer Forensics	
CST 3650 Data Structures	
CST 4701 Game Programming	
CST 4706 Software Development Methodologies	
CST courses beginning with 35, 36, or 47	
Total	60-61

Note: Students must complete two courses designated as Writing Intensive at New York City College of Technology for the bachelor's degree, one in liberal arts and one in the discipline.

*Students must complete one course from each of the five flexible core categories and one additional course from any one of the categories. Hence, they should select gen ed courses appropriately.

Total Credits earned at Queensborough CC:	60
NYC Tech General Education Requirements	6
Remaining Core Requirements in Major Concentration/Track	21- 22 33
Total Credits to be earned at NYC College of Technology:	60-61
Total Credits required for B.Tech. degree:	120-121