THE CITY UNIVERSITY OF NEW YORK

ARTICULATION AGREEMENT
between
LAGUARDIA COMMUNITY COLLEGE
PROGRAM IN COMPUTER INFORMATION SYSTEMS
and
NEW YORK CITY COLLEGE OF TECHNOLOGY
BACHELOR OF TECHNOLOGY IN COMPUTER SYSTEMS

A. SENDING AND RECEIVING INSTITUTIONS

<u>**Sending Institution**</u>: LaGuardia Community College

Department: Mathematics, Chairperson, Department of Computer Engineering and Computer Science

Program: Computer Operations

Degree: Associate of Applied Science (A.A.S)

<u>**Receiving Institution**</u>: New York City College of Technology

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:
   a. Completion of Associate Degree in Computer Operations – Network Administration & Security.
   b. Fulfillment of all Lower Division General Education requirements for the New York City College of Technology Baccalaureate in Computer Systems.
   c. Fulfillment of New York State Liberal Arts requirements and all Upper Division General Education requirements
   d. GPA of 2.0 or above
2. C or better in all required computer courses related to the degrees stated in Computer Operations – Network Administration & Security
3. If a grade less than a C is ascertained in the course(s) which 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 Citytech and to establish a grade of C or better.
4. Total transfer credits granted toward the baccalaureate degree: <u>60 credits</u>
5. Total additional credits required at the senior college to complete baccalaureate degree: <u>60-64 credits.</u>
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 which 34 must be taken in residence. Certification of graduation is assured upon completion of a minimum of 60 credits with a

cumulative index of 2.0. This 2.0 index is also required in the major, the minor and/or interdisciplinary program.

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

LaGuardia Community College Computer Operations – Network Administration & Security		NYC College of Technology Computer Systems		
Course Number & Title	**Credits**	**Course Number & Title**	**Credits**	**Credits Awarded**
Required Common Core				
ENGLISH COMPOSITION: ENG 101 English Composition I (ENA101 or ENC101 depending on placement scores)	3	**ENG 1101 English Composition I**	**3**	**3**
ENG102 Writing through Literature	3	**ENG 1101 English Composition I**	**3**	**3**
MQR: MAT120 Elementary Statistics (STEM)	3	**Mathematical and Quantitative Reasoning**	**3**	**3**
LPS: Select one of the following courses: SCB101 Topics in Biological Sciences; SCC101 Topics in Chemistry; SCP101 Topics in Physics; SCP140 Topics in Astronomy 3	**3**	**Life and Physical Sciences**	**3**	**3**
Flexible Core: Select five courses from the five Flexible Core categories. Note: Only one course can be selected from any one category and select courses from five different disciplines.	**15**	**One course each from:** World Cultures and Global Issues US Experience in its Diversity Creative Expression Individual and Society Scientific World	**15**	**15**
PATHWAYS CORE:	**27**		**27**	**27**
PROGRAM CORE: 33 Credits				
Business and Technology				
BTA Principles of Accounting I	**4**	**ACC 1101** Principles of Accounting	4	**4**
BTM Introduction to Business	**3**	**BUS 2425** Business Management	3	**3**
Computer Science				
ECF090 First Year Seminar for Engineering and Computer Science	**0**			
MAC109 Introduction to Visual Programming	**3**	**CST1101** Problem Solving with Computer Programming	3	**3**
MAC232 UNIX Network Operating Systems	**3**	**CST1215** Operating Systems Fundamental	3	**3**
MAC233 Windows Network Operating Systems	**3**	**Advance Standing**	3	**3**
MAC245 Network and Systems Security	**3**	**CST2307** Networking Fundamentals	3	**3**
MAC246 Advanced Network and Systems Security	**3**	**CST2410** Introduction to Computer Security	3	**3**
MAC252 Advanced UNIX		**CST2415** System Administration (UNIX/Linux)	3	**3**
MAC253 Advanced Windows	**3**	**CST2405** System Administration (Windows)	3	**3**

MAC293 Computer Repair and Network Maintenance.	3	CST2400 Computer Sys. Management & Support	3	3
Unrestricted elective: 1 credit	**1**	**elective**	1	**1**
Subtotal	**33**	**Subtotal**	**33**	
Total	**60**	**Total**	**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)	3
One interdisciplinary Liberal Arts and Science course	3
One additional flexible core course (if taken in addition to required Gen Ed courses	0-3
General Education	**6-9**
Remaining Requirements in Major	
Prerequisites and Program Requirements	
*MAT 1375 Pre-calculus *Students who have successfully completed the equivalent to this course at LaGuardia CC are required to take an elective in the Pathways Scientific World Category*	3
CST 1201 Programming Fundamentals	3
PSY 1101 Introduction to Psychology*(If not taken at LaGuardia)**	0-3
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	**21-25**

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:	
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 System Administration *(Students who have successfully completed the equivalent courses to CST2405 AND CST2415 at LaGuardia CC are required to choose a Bachelor Level elective (CST35xx, CST36xx, CST47xx) as long as this Bachelor Level elective is not required for the track of choice).	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 Operation	
CS2405 or CST2415 System Administration *(Students who have successfully completed the equivalent courses to CST2405 AND CST2415 at LaGuardia CC are required to choose a Bachelor Level elective (CST35xx, CST36xx, CST47xx) as long as this Bachelor Level elective is not required for the track of choice).	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**
Major Electives	
CST 3520 Computer Forensics	
CST 4701 Game Programming	
CST 4706 Software Development Methodologies	
CST courses beginning with 35, 36, or 47	

Note: Students must complete two courses designated at Writing Intensive at New York City College of Technology for the bachelor's degree

Total Credits earned at LaGuardia CC:	**60**
NYC Tech General Education Requirements	6 - 9
Remaining Core Requirements in Major	21- 25
Concentration/Track	33
Total Credits to be earned at NYC College of Technology:	**60-67**
Total Credits required for B.Tech. degree:	**120-127**

Effective date: <u>Fall 2017</u>