

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:	Programming and Systems
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 Programming and Systems
 - b. GPA of 2.0 or above
2. C or better in all required computer courses related to the degree requirements in Programming and Systems
3. If a grade less than a C is earned 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 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: 60-64 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 120 credits 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

LaGuardia Community College Programming and Systems		NYC College of Technology		
Course Number & Title	Credits	Course Number & Title	Credits	Credits Awarded
COMMON CORE: 21 Credits				
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: MAT115 College Algebra and Trigonometry (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: Note: Only one course can be selected from any one category and select courses from five different disciplines.	9	Three one course each from three of the five categories: World Cultures and Global Issues US Experience in its Diversity Creative Expression Individual and Society Scientific World	9	9
PROGRAM CORE: 39 Credits				
Math, Engineering, and Computer Science				
ECF090 First Year Seminar for Engineering and Computer Science	0			
MAC101 Intro to Computer Science	3	CST1100 Introduction to Computer Systems	3	3
MAC109 Intro to Visual Programming	3	CST1101 Problem Solving with Computer Programming	3	3
MAC110 Systems Analysis & Design	3	CST2406 Introduction to Systems Analysis & Design	3	3
MAC250 Database Concepts & Programming	3	CST1204 Database Systems Fundamentals	3	3
OBJECT ORIENTED AND UNIX CONCENTRATION				
Business and Technology				
BTA 111 Principles of Accounting I	4	ACC 1101 Principles of Accounting	4	4
BTM 101 Introduction to Business	3	BUS 2425 Business Management	3	3
Math, Engineering, and Computer Science				
MAC125 Advanced C/C++ Programming	3	CST1201 Programming Fundamentals	3	3
MAC230 Comparative Operating Systems	3	Advance Standing	3	3
MAC260 Introduction to Teleprocessing Operations	3	CST2307 Networking Fundamentals	3	3
MAT 200 Pre-Calculus	4	MAT 1375 Precalculus	3	3
<i>Select two of the following:</i>	6-7			
MAC232 UNIX Network Operating Systems	3	CST1215 Operating Systems Fundamentals	3	3

MAC233 Windows Network Operating Systems	3	Advance Standing	3	3
MAC252 Advanced UNIX	3	CST2415 System Administration (UNIX/LINUX)	3	3
MAC253 Advanced Windows	3	CST2405 System Administration (Windows)	3	3
MAC265 Computer Hardware Interfacing and Programming	3	Advanced Standing		
MAC293 Computer Repair and Network Maintenance	4	CST2400 Comp Sys. Management & Support	3	3
Unrestricted Elective: 1 credit	0-1	CST2801 Special Topics		1
Total Credits	60			60
WEB PROGRAMMING CONCENTRATION				
Business and Technology				
BTM 116 Introduction to E-Business	3	Advance Standing		
Humanities				
HUW 111 E-Commerce Technology	3	Advance Standing		
HUW166 Intro to Web Development	3	CST2309 Web Programming I	3	3
HUW167 Adv. Dynamic Web Design	3	CST2409 Web Programming II	3	3
HUW168 Advanced Dynamic Web Design	3	Advanced Standing		3
Math, Engineering, and Computer Science				
MAC270 Advanced Topics in Computer Science	3	Advanced Standing		
<i>Select one of the following course pairs:</i>	6			
MAC232 UNIX Network Operating Systems		CST1215 Operating System Fundamentals	3	3
MAC252 Advanced UNIX		CST2415 System Administration (UNIX/LINUX)		3
or				
MAC265 Computer Hardware Interfacing and Programming		Advance Standing		3
MAC293 Computer Repair and Network Maintenance		CST2400 Computer Sys. Management & Support	3	3
Unrestricted Elective: 3 credits	3	Advance Standing		3
	Subtotal		Subtotal	39
	Total		Total	60

C. 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
Gen Ed (College Option) at NYC College of Technology	6
Remaining Requirements in Major	
<i>Prerequisites and Program Requirements</i>	
PSY 1101 Introduction to Psychology(<i>If not taken at LaGuardia</i>)	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
CST 2410 Introduction to Computer Security	3
BUS 3525 Strategic Management	3
ENG 2575 Technical Writing	3
Pathway Flexible Core	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	

NYC Tech General Education Requirements	6
Remaining Core Requirements in Major Concentration/Track	21-25
	33

Total Credits earned at LaGuardia CC:	60
Total Credits to be earned at NYC College of Technology:	60-64

Total Credits required for B.Tech. degree: 120-124

Note: Students must complete two courses designated as Writing Intensive at New York City College of Technology for the bachelor's degree. They must also satisfy the Pathways requirements of at least one course in each of the five Flexible Core areas and an additional sixth course in one of them. Students can complete no more than two courses from any one area.

Effective date: Fall 2017