BERGEN COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
Associate in Science *Natural Sciences or Mathematics-* *Computer Science Option*		*Bachelor of Science in* *Computer Science* 2019	
Course	**Credit**	**Course**	**Credit**
First Semester (16 credits)			
PHR 103 Basic Logic	3	FCIQ 101 Foundations of Inquiry*	3
COM100 Speech Comm *or* COM102 Public Speaking	3	FCSP 105 Foundations of Speech Comm	3
CIS 165 Fundamentals of Programming	3	CSCI 125 Computer Programming I	3
MAT 280 Calculus I	4	MATH 170 Calculus I	4
WRT 101 English Composition I	3	FCWR 101 Writing I	3
Second Semester (16 credits)			
Humanities Elective – *Recommended* LIT Literature	3	ICLT Literature Seminar	3
CIS 265 Advanced Programming Concepts	3	CSCI 185 Computer Programming II	3
CIS 271 Computer Org and Assembly Language	3	CSCI 135 Digital Logic Design Fundamentals	3
MAT 281 Calculus II	4	MATH 180 Calculus II	4
WRT 201 English Composition II	3	FCWR 151 Writing II	3
Third Semester (14 credits)			
Free Elec – *Recommended* MAT 286 Linear Algebra	3	MATH 310 Linear Algebra	3
PHY 280 Physics I	4	PHYS 170 General Physics I	4
CIS 277 Data Structures and Algorithms	3	CSCI 260 Data Structures	3
CIS 288 Discrete Math for Computer Science	4	CSCI 235 Elements of Discrete Structures + 1 Elective credit	4
Fourth Semester (14 credits)			
Computer Science *or* Math Elective – *Recommended:* ▪ CIS 278 Database Systems *or* ▪ INF 218 Database Programming [Oracle]	3	Course Equivalent ▪ CSCI 300 Database Management ▪ CSCI 401 Database Interfaces & Prog	3
Social Science Elec – *Recommended* PSY, SOC, ANT	3	ICBS Behavioral Science Seminar	3
Free Elective – *Recommended* MAT or PHY	3	Mathematics/Science Electives	3
PHY 290 Physics II	4	PHYS 180 General Physics II	4
INF 165 Introduction to Linux	1	Elective credit	1
TOTAL	**60**	**TOTAL**	**60**

*Transfer substitution awarded on the basis of this agreement.
Note – Recommended courses are identified to maximize transfer credit award to NYIT.
Fewer credits may transfer if "Recommended" courses are not completed.

Program of Study at New York Institute of Technology
Bachelor of Science in Computer Science

Courses to be completed at NYIT:

Major courses:		Credits
ETCS 108	Computer, Internet and Society	3
CSCI 155	Computer Organization and Architecture	3
CSCI 270	Probability and Statistics for CS	3
CSCI 312	Theory of Computation	3
CSCI 318	Programming Language Concepts	3
CSCI 330	Operating Systems	3
CSCI 335	Design and Analysis of Algorithms	3
CSCI 345	Computer Networks	3
CSCI 380	Introduction to Software Engineering	3
CSCI 455	Senior Project	3
CSCI 300/CSCI Option	Database Management *or* Concentration course^	3
CSCI Concentration	Network Security *or* Big Data Mgmt *or* General option	9
Core and additional requirements:		
FCSC 101	Foundations of Scientific Process	3
FCWR 304	Communication for Technical Professions	3
ICPH 3XX	ICPH Philosophy Seminar	3
ICSS 309	Technology and Global Issues	3
BIOL/CHEM	Life Science Elective	3
MATH/SCI	Math/Science Elective	3
General Elective		1
Total credits at New York Institute of Technology:		61

^ *Requirement determined by courses completed at Bergen CC*

Dr. Babak Dastgheib-Beheshti, Dean
College of Engineering & Computing Sciences, NYIT

9/24/19
Date

- *Effective Fall 2019*