

NASSAU COMMUNITY COLLEGE

NEW YORK INSTITUTE OF TECHNOLOGY

<i>Associate in Science Computer Science</i>		<i>Bachelor of Science in Computer Science</i>	
		2019	
Course	Credit	Course	Credit
First Semester: 16-17 credits			
CSC 120 Computer Science I	4	CSCI 125 Computer Programming I **	3
ENG 100 Enhanced Composition I <i>or</i> ENG101 Comp I <i>or</i> ENG108 Craft of Composition	3	FCWR 101 Writing I	3
HED Health Elective	2-3	-	-
MAT 122 Calculus I	4	MATH 170 Calculus I	4
Social Science Elective (<i>Recommended: History</i>)	3	FCIQ 101 Foundations of Inquiry*	3
Second Semester: 17 credits			
CSC 130 Computer Science II	4	CSCI 185 Computer Programming II **	3
ENG 102 Comp II <i>or</i> ENG 109 The Art of Analysis	3	FCWR 151 Writing II	3
Humanities Elective (<i>Recommended: Literature or Philosophy</i>)	3	Equivalent Literature <i>or</i> Philosophy Seminar	3
MAT 123 Calculus II	4	MATH 180 Calculus II	4
MAT 241 Discrete Mathematical Structures	3	CSCI 235 Elements of Discrete Structures	3
Third Semester: 16-17 credits			
CSC 217 C Programming Language	3	CSCI 135 Digital Logic Design Fundamentals*	3
CSC 230 Data Structures	3	CSCI 260 Data Structures	3
CSC/MAT Elective (<i>Recommended: Mathematics</i>)	3-4	Mathematics Elective	3-4
PHY 151 Physics Science and Math I, <i>or</i> BIO 109 General Biology I, <i>or</i> CHE 151 General Chemistry I	4	PHYS 170 General Physics I, <i>or</i> BIOL 110 General Biology I, <i>or</i> CHEM 110 General Chemistry I	4
Social Science (<i>Recommended: PSY, SOC, or ANT</i>)	3	ICBS Behavioral Science Seminar	3
Fourth Semester: 15-16 credits			
CSC 260 Computer Architecture and Organization	4	CSCI 155 Computer Org and Architecture **	3
CSC/MAT Elec <i>Recommended: MAT 226 Linear Algebra</i>	3-4	MATH 310 Linear Algebra	3
Humanities Elective	3	Elective	3
PED Activity Course(s)	1	-	-
PHY 152 Physics Science and Math II, <i>or</i> BIO 110 Principles of Biology II, <i>or</i> CHE 152 General Chemistry II	4	PHYS 180 General Physics II, <i>or</i> BIOL 150 General Biology II, <i>or</i> CHEM 150 General Chemistry II	4
		ETCS 108 Computer, Internet and Society **	3
TOTAL	64-67	TOTAL	61-62

*Transfer substitution awarded on the basis of this agreement.

**All three courses (CSC 120, CSC 130, CSC 260) must be completed to receive credit for ETCS 108.

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:

<u>Major courses:</u>		<u>Credits</u>
CSCI 270	Probability and Statistics for CS	3
CSCI 300	Database Management	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 Concentration	Network Security, Big Data Management, General Option	12

Core and additional requirements:

FCSP 105	Foundations of Speech Communication	3
FCSC 101	Foundations of Scientific Process	3
FCWR 304	Communication for Technical Professions	3
ICLT or ICPH Seminar	Literature or Philosophy Seminar^	3
ICSS 309	Technology and Global Issues	3
Math/Science	Math/Science Elective	2-3
Science Elective	BIOL/CHEM/PHYS Elective^	<u>3</u>

Total credits at New York Institute of Technology: 59-60

^Requirement determined by courses completed at Nassau CC



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

8/16/2019

Date

▪ *Effective Fall 2019*