

QUEENSBOROUGH COMMUNITY COLLEGE

NEW YORK INSTITUTE OF TECHNOLOGY

<i>Associate in Science, Computer Science and Information Security</i>		<i>Bachelor of Science in Computer Science</i>	
		2019	
Course	Credit	Course	Credit
Fall Semester #1: 15-16 credits			
MA 119 College Algebra (<i>or higher</i>) <i>Recommended:</i> MA 440 Pre-Calculus (4)	3-4	Mathematics Elective	3-4
ET 570 Creating Smartphone Apps	3	ETCS 108 Computer, Internet and Society*	3
Flexible Core – Select one course, from 2. A, B, C, D, or E <i>Recommended:</i> SP 211 Speech Communication	3	FCSP 105 Foundations of Speech Communication	3
Flexible Core – 2E. Scientific World (BI, CH, PH)	3	Science Equivalent	3
ENGL 101 English Composition I	3	FCWR 101 Writing I	3
Spring Semester #1: 17 credits			
MA 440 Pre-Calculus (<i>or higher</i>) <i>Recommended:</i> MA441 Analytic Geom & Calculus I (4)	4	Mathematics Elective (3), <i>or</i> MATH 170 Calculus I (4)	3-4
ET 704 Networking Fundamentals	4	CSCI 345 Computer Networks	3
Flexible Core – 2C. Creative Expression	3	Elective	3
Flexible Core – 2D. Individual & Society <i>Recommended:</i> PHIL Philosophy course	3	ICPH Philosophy Seminar	3
ENGL 102 English Composition II	3	FCWR 151 Writing II	3
Fall Semester #2: 15 credits			
MA 471 Introduction to Discrete Mathematics	3	CSCI 235 Elements of Discrete Structures	3
ET 575 Introduction to C++ Programming Design & Implementation	3	CSCI 125 Computer Programming I	3
ET 725 Computer Network Security	3	CSCI 445 Operating System Security	3
Flexible Core – 2A. World Culture & Global Issues <i>Recommended:</i> ANTH Anthropology course	3	ICBS Behavioral Science Seminar*	3
Flexible Core – 2B. U.S. Experience and Its Diversity <i>Recommended:</i> HIST History course	3	FCIQ 101 Foundations of Inquiry*	3
Spring Semester #2: 14 credits			
MA 441 Analytic Geometry and Calculus I <i>Recommended:</i> MA 442 Analytic Geom & Calculus II	4	MATH 170 Calculus I, <i>or</i> MATH 180 Calculus II (4)	4
ET 580 Object Oriented Programming	3	CSCI 185 Computer Programming II	3
ET 585 Computer Architecture	3	CSCI 155 Computer Organization and Architecture	3
Required Core 1C – Life & Physical Sciences <i>Recommended:</i> BI-201 General Biology 1, <i>or</i> CH-151 General Chemistry 1, <i>or</i> PH 401 (PH 421) General Calculus Physics A	4	BIOL 110 General Biology I, <i>or</i> CHEM 110 General Chemistry I, <i>or</i> PHYS 170 General Physics I	4
TOTAL	61-62	TOTAL	59-61

*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:

<u>Major courses:</u>		<u>Credits</u>
CSCI 135	Digital Logic Design Fundamentals	3
CSCI 260	Data Structures	3
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 380	Introduction to Software Engineering	3
CSCI 455	Senior Project	3
CSCI Concentration	Network Security, Big Data Management, General Option	9
 <u>Core and additional requirements:</u>		
FCSC 101	Foundations of Scientific Process	3
FCWR 304	Communication for Technical Professions	3
ICLT 3XX	ICLT Literature Seminar	3
ICSS 309	Technology and Global Issues	3
Math/Science	MATH 180 Calculus II (4) or Math/Science Elective (2)^	2-4
MATH 310	Linear Algebra	3
Science	BIOL 150/CHEM 150/PHYS 180 ^	4

Total credits at New York Institute of Technology: 60-62

^Requirement determined by courses completed at Queensborough CC



8/16/2019

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

Date

▪ *Effective Fall 2019*