

NASSAU COMMUNITY COLLEGE

NEW YORK INSTITUTE OF TECHNOLOGY

| <i>Associate in Science Computer Science</i> | | <i>Bachelor of Science in Information Technology</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 | Elective | 2-3 |
| MAT 122 Calculus I | 4 | MATH 161 Basic Applied Calculus +1 Mathematics Elective credit | 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 | Mathematics Elective | 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 (ITEC 251) * | 3 |
| CSC 230 Data Structures | 3 | CSCI 260 Data Structures | 3 |
| CSC/MAT Elective | 3-4 | Equivalent Elective | 3-4 |
| <i>Recommended: PHY 151 Physics Science and Math I</i> | 4 | PHYS 170 General Physics 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 Organization & Architecture ** | 3 |
| CSC/MAT Elective | 3-4 | Equivalent Elective | 3-4 |
| Humanities Elective | 3 | Elective | 3 |
| PED Activity Course(s) | 1 | Elective | 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 | Science Elective | 4 |
| | | ETCS 108 Computer, Internet and Society ** | 3 |
| TOTAL | 64-67 | TOTAL | 64-67 |

*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 Information Technology

Courses to be completed at NYIT:

| <u>Major courses:</u> | | <u>Credits</u> |
|-----------------------|--|----------------|
| CSCI 330 | Operating Systems | 3 |
| CSCI 345 | Computer Networks | 3 |
| ITEC 290 | Database Systems | 3 |
| ITEC 305 | Internet Programming I | 3 |
| ITEC 320 | Web-based Multimedia Development I | 3 |
| ITEC 357 | Cisco Academy Level I | 3 |
| IENG 251 | Project Engineering | 3 |
| MGMT 421 | Cyber Law, Policy and Ethics | 3 |
| Prof Concentration | Info and Network Security <i>or</i> General Option | 9 |

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 |
| Electives | Electives—Technology, Liberal Arts, or General [^] | <u>5-8</u> |

Total credits at New York Institute of Technology: 53-56

[^] Requirement determined by courses completed at Nassau CC



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College of Engineering & Computing Sciences, NYIT

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Date

- *Effective Fall 2019*