

| SUFFOLK COUNTY<br>COMMUNITY COLLEGE   |           | NEW YORK INSTITUTE<br>OF TECHNOLOGY                               |           |
|---|-----------|---|-----------|
|   |           | 2022  |           |
| <i>Associate in Applied Science<br/>Cybersecurity and Information Assurance</i> |           | <i>Bachelor of Science<br/>Information Technology</i>             |           |
| Course  | Credit    | Course  | Credit    |
| <b>First Semester: 16 credits</b>   |           |   |           |
| CYB 101: College Seminar for Cybersecurity                                      | 1         | Liberal Arts Elective   | 1         |
| CYB 111: CCNA Introduction to Networks  | 3         | CSCI 345 Computer Networks  | 3         |
| CYB 115: Client Operating Systems   | 4         | CSCI 330 Operating Systems  | 3         |
| CYB 125: Cybersecurity Fundamentals   | 3         | ITEC 310 Intro to Network and Internet Security                   | 3         |
| MAT 111: Algebra II or higher   | 4         | MATH 135 Fundamentals of Precalculus I,<br>or course equivalent   | 4         |
| Physical Education  | 1         | Elective (1 credit)   | 1         |
| <b>Second Semester: 16 credits</b>  |           |   |           |
| CYB 112: Script Programming   | 3         | ETCS 108 Computer, Internet and Society^                          | 3         |
| CYB 121: CCNA Routing and Switching Essentials                                  | 3         | ITEC 357 Cisco Academy Level I                                    | 3         |
| CYB 126: Intranetworking and Infrastructure                                     | 3         | ITEC Technology Elective  | 3         |
| ENG 101: Standard Freshman Composition  | 3         | FCWR 101 Writing I  | 3         |
| Social Sciences Elective <i>Recommended: HIS or PHL</i>                         | 3         | Science & Technology Electives^                                   | 3         |
| Physical Education Elective   | 1         | Elective (1 credit)   | 1         |
| <b>Third Semester: 16 credits</b>   |           |   |           |
| COM 101: Introduction to Human Communications                                   | 3         | FCSP 105 Foundations of Speech Communication                      | 3         |
| CYB 231: CCNA Scaling Networks and Energy Mgmt                                  | 3         | ITEC Technology Elective  | 3         |
| CYB 243: Penetration Testing  | 3         | ITEC 460 Topics in Information Technology                         | 3         |
| CYB 233: CCNA Security  | 4         | ITEC 445 Operating System Security +<br>1 Elective credit         | 4         |
| English Elective <i>Recommended: ENG 102</i>                                    | 3         | FCWR 151 Writing II   | 3         |
| <b>Fourth Semester: 16 credits</b>  |           |   |           |
| CYB 242: Information Security Capstone  | 3         | Elective  | 3         |
| CYB 244: CCNA Cybersecurity Operations  | 3         | Elective  | 3         |
| Cybersecurity Elective  | 3         | Elective  | 3         |
| Laboratory Science Elective<br><i>Recommended: PHY 101 College Physics I</i>    | 4         | PHYS 130 Introductory Physics +<br>1 Liberal Arts Elective credit | 4         |
| Social Sciences Elective  | 3         | Liberal Arts Elective   | 3         |
|   |           |   |           |
|   |           |   |           |
|   |           |   |           |
| <b>TOTAL</b>  | <b>64</b> | <b>TOTAL</b>  | <b>63</b> |

^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 Information Technology

Courses to be completed at NYIT:

| <u>Major Courses:</u>                           | <u>Credits</u> |
|---|----------------|
| CSCI 125 Computer Programming I                 | 3              |
| CSCI 155 Computer Organization and Architecture | 3              |
| CSCI 185 Computer Programming II                | 3              |
| CSCI 235 Elements of Discrete Structures        | 3              |
| CSCI 260 Data Structures                        | 3              |
| ITEC 251 Applied Discrete Structures I          | 3              |
| ITEC 290 Database Systems                       | 3              |
| ITEC 305 Internet Programming I                 | 3              |
| ITEC 320 Web-based Multimedia Development I     | 3              |
| IENG 251 Project Engineering                    | 3              |
| MGMT 421 Cyber Law, Policy and Ethics           | 3              |

Mathematics and Science

|                                 |   |
|---------------------------------|---|
| MATH 161 Basic Applied Calculus | 3 |
| Science Elective                | 6 |

Core and additional requirements:

|  |   |
|--|---|
| FCWR 304 Communication for Technical Professions | 3 |
| ICBS 3XX ICBS Behavioral Science Seminar         | 3 |
| ICLT 3XX ICLT Literature Seminar                 | 3 |
| ICPH 3XX ICPH Philosophy Seminar                 | 3 |
| ICSS 309 Technology and Global Issues            | 3 |

Total credits at New York Institute of Technology: 57



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

▪ *Effective Fall 2022*