

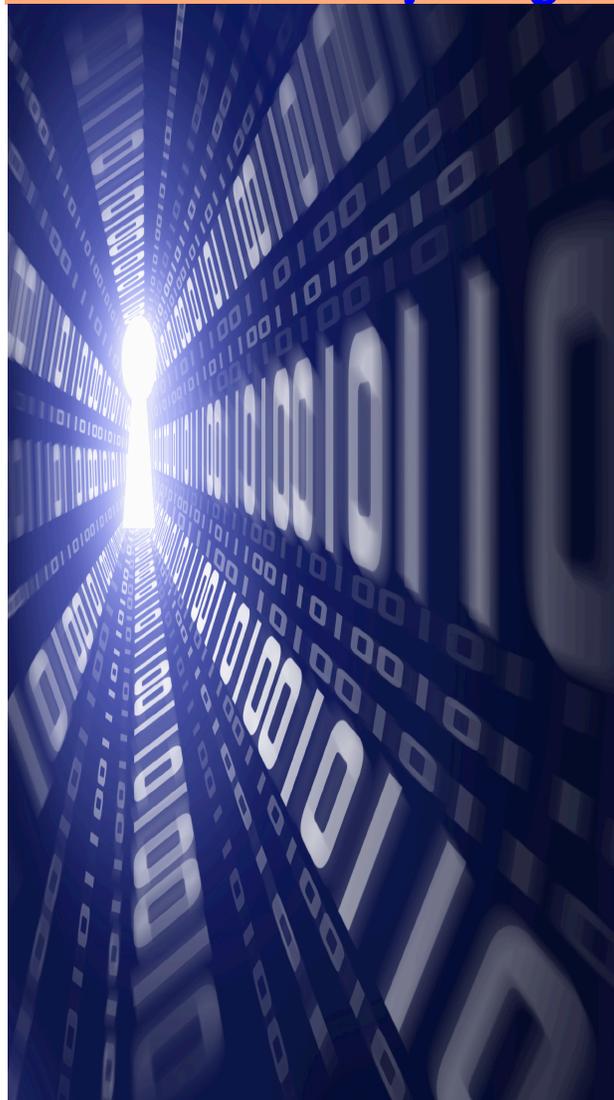
## Course Prerequisites

All course prerequisites require a grade of C or better.

| Before You Take... | You Have To Take:   |
|--------------------|---|
| <b>CSC 104</b>     | All required remediation  |
| <b>CSC 120</b>     | All required remediation<br><i>and:</i><br><b>CSC 104</b> or <b>MAT 111</b> or<br>prior programming<br>experience or<br>departmental permission |
| <b>CSC 130</b>     | <b>CSC 120</b>  |
| <b>CSC 217</b>     | <b>CSC 130</b> or <b>ITE 204</b>  |
| <b>CSC 230</b>     | <b>CSC 130</b>  |
| <b>CSC 240</b>     | <b>CSC 130</b> or departmental<br>permission  |
| <b>CSC 260</b>     | <b>CSC 130</b>  |
| <b>ITE 101</b>     | All required remediation  |
| <b>ITE 153</b>     | All required remediation  |
| <b>ITE 154</b>     | <b>ITE 101</b> and <b>CSC 104</b>   |
| <b>ITE 204</b>     | <b>ITE 154</b>  |
| <b>ITE 213</b>     | All required remediation  |
| <b>ITE 223</b>     | Take <b>ITE 153</b> first, and<br>take <b>ITE 213</b> at the same<br>time   |
| <b>ITE 252</b>     | <b>ITE 101</b> and <b>CSC 104</b>   |
| <b>ITE 253</b>     | <b>ITE 223</b>  |
| <b>ITE 254</b>     | <b>ITE 154</b>  |
| <b>ITE 264</b>     | Take <b>ITE 204</b> or <b>CMP<br/>219</b> first, and take <b>ITE<br/>252</b> first or at the same<br>time                                       |
| <b>MAT 122</b>     | <b>MAT 111</b> or <b>MAT 117</b> or<br>a high school Math<br>average of 75 or better  |
| <b>MAT 123</b>     | <b>MAT 122</b>  |
| <b>MAT 131</b>     | <b>MAT 123</b>  |
| <b>MAT 200</b>     | <b>MAT 123</b>  |
| <b>MAT 225</b>     | <b>MAT 123</b>  |
| <b>MAT 241</b>     | <b>MAT 122</b>  |
| <b>MAT 226</b>     | <b>MAT 123</b>  |
| <b>MAT 234</b>     | <b>MAT 123</b>  |
| <b>MAT 235</b>     | <b>MAT 225</b>  |



## Computer Science and Information Technology at Nassau Community College



**Not just job training.  
Career training.**



## A.A.S. in Information Technology

| <b>First Semester</b>                                    | <b>Credits</b> |
|--|----------------|
| <b>ITE 101</b><br>Introduction to Information Technology | 3              |
| <b>CSC 104</b><br>Programming Logic & Problem Solving    | 3              |
| <b>Math Elective</b><br>MAT 102 or higher                | 3-4            |
| <b>ENG 101</b><br>Composition 1                          | 3              |
| <b>Business/Accounting Elective</b><br>See note below    | 3              |
| <b>Total</b>   | <b>15-16</b>   |

| <b>Second Semester</b>                                     | <b>Credits</b> |
|--|----------------|
| <b>ITE 153</b><br>Operating Systems Management             | 4              |
| <b>ITE 154</b><br>Web Programming 1                        | 3              |
| <b>Math Elective</b><br>MAT 102 or higher                  | 3-4            |
| <b>English/Communications Course</b><br>ENG 102 or COM 101 | 3              |
| <b>Humanities Elective</b><br>See explanation below        | 3              |
| <b>Total</b>   | <b>16-17</b>   |

| <b>Third Semester</b>                                      | <b>Credits</b> |
|--|----------------|
| <b>ITE 213</b><br>Data Communications & the Internet       | 3              |
| <b>ITE 223</b><br>Network Management                       | 4              |
| <b>ITE 204</b><br>Java Programming                         | 4              |
| <b>Health Elective</b><br>Under HED in the College Catalog | 2-3            |
| <b>Social Science Elective</b><br>See explanation below    | 3              |
| <b>Total</b>   | <b>16-17</b>   |

| <b>Fourth Semester</b>                                  | <b>Credits</b> |
|---|----------------|
| <b>ITE 252</b><br>Database Management                   | 4              |
| <b>ITE Elective</b><br>See explanation below            | 3              |
| <b>ITE Elective</b><br>See explanation below            | 3              |
| <b>Social Science Elective</b><br>See explanation below | 3              |
| <b>Lab Science</b>                                      | 4              |
| <b>Total</b>  | <b>17</b>      |

**IT Degree Total** 64-67

**Information Technology Elective:** Choose from **ITE 253**, **ITE 254**, **ITE 264** (note: co-requisite of **ITE 252**), or **CMP 294**.

**Business/Accounting Elective:** Choose from **BUS 100**, **BUS 110**, **BUS 111**, **BUS 112**, **LAW 103**, **ABT 245**, or **ACC 101**.

**Humanities Elective:** Choose from *African-American Studies* (as listed in College Catalog), *Art*, *Communications*, *English*, *Foreign Languages*, *Library*, **MDC 102**, **MDC 130**, *Music*, *Philosophy*, *Reading*, or *Theater/Dance*.

**Social Science Elective:** Choose from *African-American History* (including **AFR 185**), *Economics*, *Finance*, *Geography*, *History*, *Interdisciplinary Global Studies*, *Political Science*, *Psychology*, or *Sociology*.

*Degree requirements are subject to change with approval of new courses.  
Effective Fall 2015.  
Updated September 2017.*

## A.S. in Computer Science

| <b>First Semester</b>                                      | <b>Credits</b> |
|--|----------------|
| <b>CSC 120</b><br>Computer Science 1                       | 4              |
| <b>MAT 122</b><br>Calculus 1                               | 4              |
| <b>ENG 101</b><br>Composition 1                            | 3              |
| <b>Social Science Elective</b><br>See website listed below | 3              |
| <b>Health Elective</b><br>Under HED in the College Catalog | 2-3            |
| <b>Total</b>   | <b>16-17</b>   |

| <b>Second Semester</b>                                 | <b>Credits</b> |
|--|----------------|
| <b>CSC 130</b><br>Computer Science 2                   | 4              |
| <b>MAT 241</b><br>Discrete Mathematical Structures     | 3              |
| <b>MAT 123</b><br>Calculus 2                           | 4              |
| <b>ENG 102</b><br>Composition 2                        | 3              |
| <b>Humanities Elective</b><br>See website listed below | 3              |
| <b>Total</b>   | <b>17</b>      |

| <b>Third Semester</b>   | <b>Credits</b> |
|---|----------------|
| <b>CSC 217</b><br>C Programming Language                              | 3              |
| <b>CSC 230</b><br>Data Structures                                     | 3              |
| <b>Computer Science/Mathematics Elective</b><br>See explanation below | 3-4            |
| <b>Social Science Elective</b><br>See website listed below            | 3              |
| <b>BIO 109 / CHE 151 / PHY 151</b>                                    | 4              |
| <b>Total</b>  | <b>16-17</b>   |

| <b>Fourth Semester</b>  | <b>Credits</b> |
|---|----------------|
| <b>CSC 260</b><br>Computer Architecture and Organization              | 4              |
| <b>Computer Science/Mathematics Elective</b><br>See explanation below | 3-4            |
| <b>BIO 110 / CHE 152 / PHY 152</b>                                    | 4              |
| <b>Humanities Elective</b><br>See website listed below                | 3              |
| <b>Physical Education Activity</b>                                    | 1              |
| <b>Total</b>  | <b>15-16</b>   |

**CS Degree Total** 64-67

Students who do not qualify for **MAT 122** and **CSC 120** must seek advisement for MAT and CSC placement, and should be aware that more than four semesters may be required to complete the degree program.

**Computer Science/Mathematics Elective:** Choose from **CSC 240**, **MAT 131**, **MAT 200**, **MAT 225**, **MAT 226** (requires **MAT 123** prerequisite), **MAT 234** (requires **MAT 123** prerequisite), or **MAT 235** (requires **MAT 225** prerequisite).

Lab science courses must be taken as a sequence, e.g. **BIO 109** and **BIO 110**.

For the most up-to-date information, including how these courses fulfill SUNY's General Education requirements, see the NCC Catalog's Computer Science page: <http://goo.gl/HWfUyK>