### GENERAL EDUCATION REQUIREMENTS

#### COMPETENCIES

Minimum grade of C- required in all competencies

- **FS 0102 Freshman Seminar**
  (if transferring in fewer than 18 credits)

**Writing**

- ENG 0101 English Composition I
- ENG 0102 English Composition II

**Mathematics**

- * MATH 0098 College Algebra II or Higher (see Major)

### THE HUMAN EXPERIENCE

- Students are required to complete two courses designated as “Global”

**ARTS & LETTERS**

- (ONE course MUST be literature; ONE course MUST be a creative, fine or performing Arts course)
  - Literature
  - Arts
  - Literature, Arts, Language

### BEHAVIORAL, ECONOMIC, & POLITICAL SCIENCES

(Two different categories must be represented)

### HISTORY, CULTURES, & PHILOSOPHICAL INQUIRY

(ONE course MUST be History, and ONE course must be Cultures or Philosophical Inquiry)

### PHYSICAL, LIFE, & COMPUTATIONAL SCIENCES

(ONE course must be a Physical Science, ONE must be a Life Science and ONE must include a lab)

**PHYSICAL EDUCATION**

- PEDC

### REQUIRED MAJOR COURSES (45 Credit Hours)

- CIST 0150 Programming Fundamentals (3)
- CIST 0161 Technology of Computing (3)
- CIST 0163 Intro to Web Technology (3)
- CIST 0165 Networking I (3)
- CIST 0166 Networking II (3)
- CIST 0261 Computer Security (3)
- CIST 0262 Systems Administration (3)
- CIST 0265 Data Structures &Object Oriented Programming (3)
- CIST 1307 Database Design and Management (3)
- CIST 1310 Systems Analysis and Design (3)
- CIST 1311 Electronic Commerce (3)
- CIST 1325 Intro to Supply Chain Management (3)
- CIST 1408 Project Management in Information Tech. (3)
- CIST 1499 CIST Internship (3)
- CIST 1451 Capstone (3)

### CHOOSE 4 APPROVED ELECTIVES (12 Credit Hours)

- CIST 1301 Advanced Web Technologies (3)
- CIST 1320 User Interface Design (3)
- CIST 1326 Digital Forensics (3)
- CIST 1327 Intrusion Detection and Response (3)
- CIST 1328 Network Security and Cryptography (3)
- CIST 1341 Linux Operating System (3)
- CIST 1342 Host Scripting (3)
- CIST 1344 Virtualization and Cloud Technologies (3)
- CIST 1401 Information Assurance (3)
- CIST 1415 Data Analytics (3)
- CIST 1421 Mobile Application Programming (3)
- CIST 1422 Game Design and Programming (3)
- CIST 1431 Multimedia Intro to Application (3)
- CIST 1432 Ethical Hacking (3)
- CIST 1443 Network and System Practicum (3)

### OTHER REQUIRED COURSES (4 Credit Hours)

- MATH 0133 Statistics GE (4) **OR**
- ECON 0204 Statistical Methods GE (4)

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You will have EARNED ________ credit hours
You NEED ______ for 120 credit hours required for graduation.
You will have earned ________ credit hours of Upper Level course work.
You NEED _____ for the 30 credit hours required for graduation.

NOTE: This guide is unofficial. Completing the requirements on this sheet does NOT guarantee degree completion. Official degree completion information can be found in MY.PITT.EDU. Contact your Faculty Advisor and/or the Registrar’s Office with questions or concerns.
**BACHELOR OF SCIENCE IN COMPUTER INFORMATION SYSTEMS & TECHNOLOGY**

(Suggested 4 Year Plan)

<table>
<thead>
<tr>
<th>FIRST YEAR, 1ST TERM</th>
<th>CREDITS</th>
<th>FIRST YEAR, 2ND TERM</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>FS 0102 Freshman Seminar</td>
<td>3</td>
<td>ENG 0102 English Composition II</td>
<td>3</td>
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<tr>
<td>ENG 0101 English Composition I</td>
<td>3</td>
<td>CIST 0166 Networking II</td>
<td>3</td>
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<td>CIST 0163 Introduction to Web Programming</td>
<td>3</td>
<td>CIST 0150 Programming Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIST 0161 The Technology of Computing</td>
<td>3</td>
<td>GE: &quot;MATH 0098 or MATH 0110&quot;</td>
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<tr>
<td>CIST 0165 Networking 1</td>
<td>3</td>
<td>GE: Arts &amp; Letters</td>
<td>3</td>
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<tr>
<td><strong>Total Credits Per Term</strong></td>
<td><strong>15</strong></td>
<td><strong>Total Credits Per Term</strong></td>
<td><strong>15</strong></td>
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</tbody>
</table>

| TOTAL CREDITS REQUIRED FOR DEGREE | 120 |

*MATH 0098 does not meet the mathematics competency at the Pittsburgh campus

Please note that this is a potential plan for completing your degree within four years. The order of classes does not necessarily need to be followed exactly as written. Be sure to check the Academic Catalog for pre-requisites. Make sure to discuss grade requirements and course offerings each semester with your Faculty Advisor prior to registering for the upcoming term. Consult your Degree Progress Report in http://my.pitt.edu for an official record of your degree standing.