| Herkimer Community College Computer Science A.S. |  |  |  | SUNY Polytechnic Institute Computer and Information Science |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Course\# | Course Title | $\begin{gathered} \hline \text { SUNY Gen } \\ \text { Ed } \end{gathered}$ | Credits Granted | Course\# | Equivalent Course Title | Common Core | Credits Accepted |
| Year One-Fall |  |  |  | Year One-Fall |  |  |  |
| EN 111 | College Writing | BCM | 3 | ENG 101 | Freshmen Composition |  | 3 |
| IS 140 | Networking Essentials |  | 4 | ELEC 000 | General Elective |  | 4 |
| FS 100 | First Year Student Seminar |  | 1 | FYS 101 | First Year Seminar |  | 1 |
| IS 115 | Computer Applications I |  | 3 | ELEC 000 | General Elective |  | 3 |
| IS 124 | Princiiples Of Programming I |  | 3 | CS 108 | Computing Fundamentals |  | 3 |
| Year One- Spring |  |  |  | Year One- Spring |  |  |  |
| EN 112 | College Literature |  | 3 | ENG 112 | Intro to Literature |  | 3 |
| IS 125 | Principles of Programming II |  |  | CS 249 | Object Oriented Programming |  | 3 |
| IS 141 | Intro Hardwar and Software Concepts |  | 3 | CS 220 | Computer Organization |  | 3 |
| MA 245 | Calculus I | MAT | 4 | Mat 151 | Calculus I |  | 4 |
|  | Social Science Elective | SOS | 3 | SOS 001 | Gen Ed Elective |  | 3 |
|  | Physical Education Activity |  | 1 | REC 000 | Recreation Elective |  | 1 |
| Year Two-Fall |  |  |  | Year Two-Fall |  |  |  |
| Is 224 | Data Structures |  | 3 | CS 240 | Data Structures |  | 3 |
| MA 248 | Discrete Math |  | 3 | MA 115 | Finite Math |  | 3 |
|  | American History | AMH | 3 | AMH 001 | Gen Ed Elective |  | 3 |
|  | Arts Selective | ART | 3 | ART 001 | Gen Ed Elective |  | 3 |
|  | Laboratory Science Elective | NSC | 4 | NSC 001 | Gen Ed Elective |  | 4 |
|  | Physical Education Activity |  | 1 | REC 000 | Recreation Elective |  | 1 |
| Year Two-Spring |  |  |  | Year Two-Spring |  |  |  |
| IS 207 | Microcomputer Operating System |  | 3 | ELEC 000 | General Elective |  | 3 |
| IS 241 | Network Administration I |  | 3 | ELEC 000 | General Elective |  | 3 |
|  | Humanities Selective | HUM | 3 | HUM 001 | Gen Ed Elective |  | 3 |
|  | Information Science Elective |  | 3-4 |  | Gen Ed Elective |  | 3-4 |
|  | Western Civilization Elective | WCV | 3 | WCV 001 | Gen Ed Elective |  | 3 |
|  |  |  |  | Year Three-Fall |  |  |  |
|  |  |  |  |  | Open Elective |  | 4 |
|  |  |  |  |  | Open Elective |  | 4 |
|  |  |  |  | CS 330 or CS 350 | Operating Systems OR Information and Knowledge Management |  | 4 |
|  |  |  |  | CS 370 | Software Engineering |  | 4 |
|  |  |  |  | Year Three-Spring |  |  |  |
|  |  |  |  | CS 330 or CS 350 | Operating Systems OR Information Knowledge Management |  | 4 |
|  |  |  |  |  | Upper Level Computer Science Elective |  | 4 |
|  |  |  |  |  | Upper Level Computer Science Elective |  | 4 |
|  |  |  |  |  | Open Elective |  | 4 |
|  |  |  |  | Year Four-Fall |  |  |  |
|  |  |  |  |  | Upper Level Computer Science Elective |  | 4 |
|  |  |  |  |  | Open Elective |  | 4 |
|  |  |  |  |  | Open Elective |  | 4 |
|  |  |  |  |  | Open Elective |  | 4 |
|  |  |  |  | Year Four-Spring |  |  |  |
|  |  |  |  | CS 498 | Capstone Project |  | 4 |
|  |  |  |  |  | Open Elective |  | 4 |
|  |  |  |  |  | Open Elective |  | 4 |
|  |  |  |  |  | Open Elective |  | 4 |
|  |  | Credits Eligi | 63 |  | Total | er Credits A | 63 |
|  |  |  |  |  |  | Credits Requi | 64 |

