CSCI 1040 Computers for Multimedia and Electronic Communications — 2 credits
Learn how a computer works while using applications such as word processors to make professional publications and presentation packages to make quick videos. Also make interactive web pages with nothing more than Notepad and a web browser. Learning the underlying computer concepts helps people get the most out of computer applications. The foundations include history, hardware, languages and impact on society, introduction to structures programming and algorithms, and the use of software packages such as word processing, presentation, and web browsers.

CSCI 1050 Computers for Research and Business — 2 credits
Learn how a computer works while using applications such as spreadsheets, databases, and visual organization tools. Practice basic programming to manipulate and transfer data in and among applications. Learning the underlying computer concepts helps people get the most out of computer applications. The foundations include history, hardware, languages and impact on society, introduction to structures programming and algorithms, and the use of software packages such as spreadsheets, databases, and visual diagramming.

CSCI 1110 Algorithms and Computer Programming I — 4 credits
Introduction to problem solving methods and algorithm development; designing, coding, debugging and documenting programs. Implementation of problem solutions in a suitable high-level language. Offered fall semester. Offered in the College for Women. 
Prerequisite: Grade of C or better in MATH 1090, or appropriate level on mathematics/statistics placement assessment or ACT math score.

CSCI 1120 Algorithms and Computer Programming II — 4 credits
Continuation of the development of discipline in program design, style and expression. Introduction to algorithm analysis, string processing, recursion, internal search/sort methods and simple data structures. Offered annually. Offered in the College for Women. 
Prerequisite: A grade of C or better in CSCI 1110. NOTE: If you transferred CSCI 1110 to St. Catherine University and the course did not include Java or object-oriented programming techniques, you must learn them before enrolling in CSCI 1120.

CSCI 2070 Principles Of Computer Organization — 4 credits
Introduction to the fundamental concepts of computer organization and machine architecture. Implementation of these concepts with the assembler of a particular machine. Offered alternate years. 
Prerequisites: CSCI 1110.

CSCI 2080 Data Structures and Algorithm Analysis — 4 credits
Systematic study of algorithms and their complexity. Includes searching and sorting techniques not included in CSCI 1120; tree and graph traversal algorithms; the class P and NP; NP complete problems. Offered alternate years. 
Prerequisites: CSCI 1120, MATH 1800.

CSCI 2994 Topics — 4 credits
The subject matter of the course is announced in the annual schedule of classes. Content varies from year to year but does not duplicate existing courses. Offered in the College for Women.