



A.A.S. Web and Software Developer > B.S. Computer Science

The Computer Science program is grounded in the liberal arts tradition, balance theory and practice, and focus on the problem-solving skills necessary for life-long learning in a field characterized by rapid change in technology. We succeed in our mission by preparing our students through classroom work and appropriate external internships to secure fulfilling careers in the field of their choosing.

The world has been in an era of rapid technological advancement. The Internet, World Wide Web, and Mobile Computing have increasingly become critically important in corporate strategies, people’s social lives and personal development. We recognize this by integrating the latest technologies into the curricula. The curricula are designed to emphasize problem solving, multiple programming paradigms, and higher order thought processes that will always be needed by corporate America under any business models.

Computer Science CORE COURSES with transfer equivalencies:

Carroll University

Waukesha County Technical College

CSC110 Problem Solving through Programming	152-168 JavaScript AND 152-138 Java Programming OR 152-130 Introduction to Java
CSC111 Introduction to JAVA	152-135 Advanced Java Programming OR 152-131 Software Architecture
CSC226 Data Structures Using JAVA	
CSC240 Computer Organization and Arch	
CSC341 Software Design and Development	
CSC351 Database Design and Implementation	152-115 Database Concepts and SQL OR 156-108 Intro to Database and Reporting AND 156-109 Intro to SQL
CSC450 Projects – CSC majors	
CSC480 Internship – CSC majors	
Two electives from the following:	
CSC303 Network Protocols	* 150-117 Intro to Cisco Networks OR * 150-118 Scaling, Routing & Wireless OR * 150-175 Cisco1-Intro to Networks OR * 150-176 Cisco2-Router/Switch Essentials OR * 150-178 Cisco1-Intro to Networks OR * 150-179 Cisco2-Router/Switch Essentials OR * 150-117 Introduction to Cisco Networks OR * 150-118 Switching, Routing & Wireless OR * 150-190 Network Fundamentals
CSC307 Operating Systems – Web Master Fund	* 150-137 MS Server AND * 150-188 Linux Essentials
CSC319 World Wide Web Programming	152-105 Intro to Web Development AND 152-109 .Net Web Development
CSC323 Programming Languages	
CSC353 Mobile Application Development	152-142 Mobile Application Development OR 152-103 Mobile Application Development
CSC440 Software Engineering	

Computer Science SUPPORT COURSES with transfer equivalencies:

COM101 Principles of Communication	801-196 Oral/Interpersonal Communication or 801-198 Speech
MAT160/160L Calculus	

Pioneer Core - General Education Requirements

All students must fulfill the Carroll University Pioneer Core requirements including the Cross-Cultural and Distribution components to receive their degree.

Cross-Cultural Components with transfer equivalencies:

CCS199 Cross Cultural Seminar	
ENG170 Writing Seminar	801-136 English Composition I
CCD Cross Cultural Development	
CCS300 Cross Cultural Experience	
CCS400 Global Perspectives Colloquium	

* Indicates a course that can be taken at WCTC and utilized as an equivalency at Carroll University, but is not currently a course included in the WCTC Web and Software Specialist program.

Distribution Components

The Distribution Component includes four introductory level General Education 1 (G1) courses and one higher-level General Education 2 (GE2) course, outside of their major. A GE2 course must be from the same discipline as one of the GE1 courses previously taken (e.g., a GE1 English course and a GE2 English course) or in a pre-approved cognate field. Students will complete coursework:

Fine Arts | Humanities | Philosophy/Ethics/Religion | Social Sciences | Natural Science

Sample of WCTC courses that will fulfill the Distribution and Cross-Cultural Development Components: (GE1, GE2 and CCD) Computer Science majors are waived from the Natural Science (N1, N2) areas.

	Fine Arts	Humanities	Social Sciences	Natural Sciences	Phil/Eth/Rel
Choose one GE1 course:	F1 201-114 203-111	H1	S1 801-196 801-198 809-143	N1 WAIVED	P1 809-166
Choose one GE2 course:	F2	H2	S2	N2 WAIVED	P2

Graduation Requirements

- **Mathematical Literacy** Computer Science majors complete the following:

CSC110	152-168 JavaScript & 152-138 Java Programming
MAT160	804-196 Calculus I

- **University Convocation Program** – attendance at 2 events per year for full-time students.
- Students must earn a minimum of 128 credits, with the last 32 credits completed at Carroll.
- Students must earn a minimum 2.0 cumulative grade point average, a minimum 2.0 Carroll University grade point average and a minimum 2.0 grade point average within their major.
- One-fourth of the major requirements must be completed at Carroll University.

- A total of 64 credits may transfer from two-year institutions.
- An unlimited number of credits are eligible for transfer from four-year institutions.
- The Associate of Applied Science degree in Web and Software Developer transfers 64 credits with an additional 64 to be taken at Carroll.

Due to changes in course content at Waukesha County Technical College and Carroll University, the equivalencies are subject to change. For more information, contact the Carroll University Office of Admission 262 524.7220 or check the website at www.carrollu.edu.