



Transfer Institution: Waukesha County Technical College  
 Associate Degree Program: IT-Web and Software Developer  
 Bachelor's Degree Program: Computer Science | Video Game Design  
 Academic Year: 2024-2025

**GENERAL STUDIES COURSES \*asterisk indicates preferred course for transfer.**

WCTC			CARROLL		
COURSE NUMBER	COURSE TITLE	CREDIT	COURSE NUMBER	COURSE TITLE	CREDIT
801-136 or 801-223 Approved Sub	English Composition I English Composition II	3	ENG170	Writing Seminar	3
801-197 or 801-243 Approved Sub	Technical Reporting Business Writing	3	COM227	Technical Writing in Organizations	3
801-198 or 801-196	Speech Oral/Interpersonal Communication	3	COM101	Principles of Communication	3
804-133 or 804-118, 804-195 804-198* Approved Sub	Math & Logic Int. Alg w/Apps, College Alg w/Apps Calculus I (4 cr)	3	NON001 MAT101 MAT140	Does Not Transfer Intermediate Algebra Calculus and It's Applications (4 cr)	0 3
809-143* or 809-195 Approved Sub	Microeconomics Economics	3	ECO124 OTH000	Principles of Economics-Microeconomics Electives	3
809-199 or 809-198* Approved Sub	Psychology of Human Relations Intro to Psychology	3	OTH000 PSY101	Elective Introductory Psychology	3
Total general studies credits earned:		18	Total general studies credits accepted:		18

**CORE COURSES**

WCTC			CARROLL		
COURSE NUMBER	COURSE TITLE	CREDIT	COURSE NUMBER	COURSE TITLE	CREDIT
107-119 or 107-118 Approved Sub	System Analysis Agile Methods Information Systems Design (4 cr)	3	CSC220	Information Systems	3
107-137 or 107-117 Approved Sub	IT Internship IT Co-Op (2 cr)	1	OTH000	Elective	1
152-103 or 152-137*, 152-142* Approved Sub	Mobile Application Development Mobile iOS App Development (4 cr) Mobile Application Development (3 cr)	2	OTH000 CSC353*	Elective Mobile Application Development	2
152-105* or 201-110 Approved Sub	Intro to Web Development Webpage Design I (3 cr)	2	½ CSC319	World Wide Web Programming	2
152-108	Web Server Administration	2	OTH000	Elective	2
152-109	.Net Web Development	4	½ CSC319	World Wide Web Programming	4
152-112	Intro to Programming with C##	3	OTH000	Elective	3
152-130* or 152-134, 152-138 Approved Sub	Introduction to Java Java Programming (4 cr) Java Programming (3 cr)	2	½ CSC110	Problem Solving through Programming	2
152-131 or 152-135 Approved Sub	Software Architecture Advanced Java Programming (4 cr)	2	OTH000 CSC111	Elective Introduction to Java	2
152-145 or 152-171	Advanced Web Services Development Adv Web Services Development (3 cr)	2	OTH000	Elective	2
152-168 or 152-169 Approved Sub	JavaScript JavaScript (4 cr)	3	½ CSC110	Problem Solving through Programming	3
152-170	IS Project	4	IS Project	Elective	4
152-179	JavaScript 2	4	OTH000	Elective	4
152-197 or 152-198 Approved Sub	Distributed Java Distributed Java Programming (4 cr)	3	CSC111	Introduction to Java	3
156-101	.Net Database Programming	3	OTH000	Elective	3
156-108 or 152-115 Approved Sub	Intro to Databases & Reporting Database Concepts and SQL (3 cr)	1	½ CSC351	Database Design and Implementation	1
156-109 or 152-115 Approved Sub	Intro to SQL Database Concepts and SQL (3 cr)	2	½ CSC351	Database Design and Implementation	2
890-108 or 107-117 Approved Sub	Employment Success IT Co-Op (2 cr)	1	OTH000	Elective	1
Total core credits earned:		44	Total core credits earned:		44
Total credits required for graduation:		62	Total transfer credits accepted:		62

## ADDITIONAL COURSES TO BE COMPLETED FOR B.S. DEGREE

CARROLL			
COURSE or DISTRIBUTION COMPONENT	COURSE TITLE	CREDIT	PROGRAM NOTES
CSC226	Data Structures Using Java	4	Please see Carroll University Academic Catalog for Computer Science and Video Game Development program requirements: <a href="https://catalog.carrollu.edu/preview_program.php?catoid=11&amp;poiid=1458">https://catalog.carrollu.edu/preview_program.php?catoid=11&amp;poiid=1458</a> <a href="https://catalog.carrollu.edu/preview_program.php?catoid=11&amp;poiid=1689&amp;returto=281">https://catalog.carrollu.edu/preview_program.php?catoid=11&amp;poiid=1689&amp;returto=281</a>
CSC240	Computer Org and Architecture	4	
CSC341	Software Design and Development	4	
CSC Elective	See options	4	
CSC450	Projects-CSC Majors	4	
CSC480	Internship	4	
MAT130 (prereq for MAT160)*	Elementary Functions	4	
MAT160	Calculus 1	4	
CCS199	Cultural Survey	2	
Cross-Cultural Development	Options exist	0	
Cross-Cultural Experience	Options exist; immersion experience	2	Please see Pioneer Core for description of General Education requirements - <a href="https://catalog.carrollu.edu/content.php?catoid=11&amp;navoid=277">https://catalog.carrollu.edu/content.php?catoid=11&amp;navoid=277</a>  Some GE1 and GE2 Distribution courses are also designated Cross-Cultural Development (CCD). Students must take at least one CCD course. Students may satisfy the CCD requirement and a Distribution Area requirement in a single course.  Total credits required for graduation are based upon a calculation of transfer credits accepted plus credits required to complete the B.S. degree. A minimum of 128 credits is required to earn a B.S. degree at Carroll provided all requirements have been satisfied.  NOTE: The Video Game Design Major is not a stand-alone major; it must be paired with another major. Computer Science is the primary major.  CSC Elective from the following options: <ul style="list-style-type: none"> <li>• CSC275 Practical Cybersecurity (4 cr)</li> <li>• CSC303 Network Protocols (4 cr)</li> <li>• CSC307 Operating Systems/Web Master Fund-Unix/Linux Apache (4 cr)</li> <li>• CSC323 Programming Languages (4 cr)</li> <li>• CSC353 Mobile Application Development (4 cr)*</li> <li>• CSC440 Software Engineering (4 cr)</li> <li>• CSC491 Special Studies/Topics 1 (4 cr)</li> </ul>
CCS400	Global Perspectives Colloquium	2	
Fine Arts 1	ART112	0	
Humanities 1	ENG215	0	
Philosophy/Ethics/Religion 1	Options exist	4	
GE2 - General Education 2/ Cross-Cultural Development	Options exist	4	
<b>VIDEO GAME DESIGN COURSES</b>			
ART112	Visual Narrative: 2D & 3D	4	
ENG205	Interactive Fiction Writing: Stories and Games for Online Env.	4	
ENG215	Video Game Studies	4	
GRC150	Digital Toolbox - Photoshop/Illustrator	4	
VGD115	Introduction to Video Game Design	4	
VGD315	Video Game Design II	4	
VGD316	Video Game Design III	4	
VGD391	Topics in Video Game Design	4	
VGD499	Video Game Design Capstone	4	
Total credits required to complete degree:		82	If 152-137 or 152-142 is completed at WCTC, CSC353 credit is awarded to fulfill the CSE Elective.  If 804-118 Int. Alg w/Apps or 804-195 College Alg w/Apps is completed at WCTC, then MAT130 Elementary Functions is required to satisfy prerequisite for MAT160 Calculus I.  If 804-198 Calculus I (equivalent to MAT140 at CU) is completed at WCTC, MAT130 Elementary Functions would not be required.
Total credits required for graduation:		144	

## CARROLL UNIVERSITY

### 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: CCS199, ENG170, Cross-Cultural Development (CCD), Cross-Cultural Experience (CCE) and CCS400.

### DISTRIBUTION COMPONENTS

The Distribution Components include 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 taken (i.e., a GE1 English course and a GE2 English course) or in a pre-approved cognate field. Students will complete coursework in Fine Arts, Humanities, Philosophy/Ethics/Religion, Social Sciences and Natural Sciences. Students are waived from the GE1/GE2 area that houses their major.

### MATHEMATICAL LITERACY - degree specific, see courses listed.

### GRADUATION REQUIREMENTS

- Students must earn a minimum of 128 credits; with the final 32 credits completed at Carroll.
- Students must earn a minimum 2.0 cumulative GPA, a minimum 2.0 Carroll GPA and a minimum 2.0 major GPA.
- One-fourth of major requirements must be completed at Carroll.
- 64 credits may transfer from a two-year institution.

### MISCELLANEOUS

- Students with the **A.A.S. Web & Software Developer** degree will transfer with junior standing provided the degree includes appropriate program and grade requirements.
- Due to changes in course content, transfer equivalencies are subject to change.