

# Transfer Guide between Maricopa Community Colleges and Grand Canyon University



**Associate of Applied Science in Computer Programming- Mesa Community College- Academic Plan Code: 3164**

**To:**

**Bachelor of Science in Computer Programming-Grand Canyon University**

The following table outlines the requirements needed to receive an Associate of Applied Science in Computer Programming from Maricopa Community Colleges. Within the table we have identified preferred courses from Maricopa Community Colleges that will be applicable towards Grand Canyon University's Bachelor of Science in Computer Programming. The following will be used in evaluating official transcripts.

Maricopa Community Colleges – Associate of Applied Science in Computer Programming	Credits	Grand Canyon University – Bachelor of Science in Computer Programming	GCU Applied Semester Credits
<b>General Education Requirements: 22- 28 credits</b>			
ENG101: First-Year Composition <b>OR</b> ENG107: First-Year Composition for ESL (Prerequisite placement must be met)	3	ENG-105: English Composition I	3
ENG102: First-Year Composition <b>OR</b> ENG108: First-Year Composition for ESL	3	ENG-106: English Composition II	3
CRE101: College Critical Reading <b>OR</b> Equivalent by assessment	0-3	General Elective	0-3
Oral Communication-Select from COM100, 110, 225, or 230.	3	General Education: Effective Communication (See MCCCD-GCU Course Equiv. Guide: <a href="http://www.gcu.edu/Transfer-Center/Transfer-from-a-Maricopa-Community-College/Course-Equivalency-Guides.php">http://www.gcu.edu/Transfer-Center/Transfer-from-a-Maricopa-Community-College/Course-Equivalency-Guides.php</a> )	3
MAT120/121/122: Intermediate Algebra	3-5	MAT-134: Applications of Algebra <b>AND</b> General Education: Critical Thinking (See MCCCD- GCU Course Equiv. Guide: <a href="http://www.gcu.edu/Transfer-Center/Transfer-from-a-Maricopa-Community-College/Course-Equivalency-Guides.php">http://www.gcu.edu/Transfer-Center/Transfer-from-a-Maricopa-Community-College/Course-Equivalency-Guides.php</a> )	3-5
Humanities, Arts and Design-Select from approved AAS general education course list: <a href="https://goo.gl/i1cQ4Q">https://goo.gl/i1cQ4Q</a> .	3	General Education: Global Awareness, Perspectives, and Ethics (See MCCCD-GCU Course Equiv. Guide: <a href="http://www.gcu.edu/Transfer-Center/Transfer-from-a-Maricopa-Community-College/Course-Equivalency-Guides.php">http://www.gcu.edu/Transfer-Center/Transfer-from-a-Maricopa-Community-College/Course-Equivalency-Guides.php</a> )	3
Social-Behavioral Sciences- SBU200: Society and Business	3	General Education: Global Awareness	3
Natural Sciences-Select from approved AAS general education course list: <a href="https://goo.gl/i1cQ4Q">https://goo.gl/i1cQ4Q</a>	4	General Education: Critical Thinking (See MCCCD- GCU Course Equiv. Guide: <a href="http://www.gcu.edu/Transfer-Center/Transfer-from-a-Maricopa-Community-College/Course-Equivalency-Guides.php">http://www.gcu.edu/Transfer-Center/Transfer-from-a-Maricopa-Community-College/Course-Equivalency-Guides.php</a> )	4
<b>Required Courses: 27 credits</b>			
CIS105: Survey of Computer Information Systems	3	General Elective	3
CIS276DB: SQL Server Database (3) <b>AND</b> CIS166AC: Web Scripting with Active Server Pages (3) <b>OR</b> CST276DC: Oracle Database (3) <b>AND</b> CIS166AD: Web Scripting with JSP (3)	6	CST-322: Cloud Computing & Lab <b>AND</b> General Elective	4  2
CIS133DA Internet/Web Development Level I	3	General Elective	3
CIS126DL Linux Operating System (3) <b>OR</b> MST150++ Microsoft Windows (any course)(3)	3	General Elective	3

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CIS150AB: Object-Oriented Programming Fundamentals	3	CST-115: Computer Programming II & Lab	3
CIS159: Visual Basic Programming I	3	General Elective	3
CIS162AD C#: Level I	3	CST-116: Enterprise Applications Programming I & Lab	3
CIS163AA: Java Programming: Level I	3	CST-100: Computer Programming I & Lab	3
Restricted/Recommended Electives: 12			
CIS262AB: C++: Level II	3	General Elective	3
CIS262AD: C#: Level II	3	CST-226: Enterprise Applications Programming III & Lab	3
CIS224: Project Management Microsoft Project for Windows (3) <b>AND</b> CIS250: Management of Information System (3)	6	CST-325: Written and Verbal Communication for Software Development & Lab	4
		<b>AND</b> General Elective	2
Minimum Number of Credits Required for Associate of Applied Science in Computer Programming at Maricopa Community Colleges			61-66
Total Credits Applied Towards Grand Canyon University’s Bachelor of Science in Computer Programming			56

The following table outlines the remaining courses required to fulfill the Bachelor of Science in Computer Programming program requirements at Grand Canyon University.

Course #	Bachelor of Science in Computer Programming	Semester Credits
<b>General Education: 8 credits</b>		
UNV-303*	University Success	4
CWV-301	Christian Worldview	4
<b>Required General Education (also meet GCU's Effective Communication requirement) : 4 credits</b>		
STG-390	Professionalism in Science & Technology: Communications, Conduct, and Ethics	4
<b>Required General Education (also meet GCU's Critical Thinking requirement) : 8 credits</b>		
CST-360	Design Patterns in Java & Lab	4
CST-424	Research Methods	4
<b>Required General Education (also meet GCU's Global Awareness requirement) : 4 credits</b>		
ITT-415	IT Business Case Planning for Global Enterprise	4
<b>Program Major: 40 credits</b>		
CST-200	CST-200: Algorithms and Data Structures & Lab	4
CST-213	Computer Programming III & Lab	4
CST-125	Database Application Programming I & Lab	4
CST-225	Database Application Programming II & Lab	4
CST-230	Database Application Programming III & Lab	4
CST-216	Enterprise Applications Programming II & Lab	4
CST-220	Operating Systems Concepts & Lab	4
ITT-305	Information Security I	2
ITT-306	Information Security II	2
CST-340	Open Source Computing & Lab	4
CST-451Ω	Senior Project I	2

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Course #		Bachelor of Science in Computer Programming	Semester Credits
CST-452Ω	Senior Project II		2
Total Credits Completed at Grand Canyon University			64
Transfer Credits from the Associate of Applied Science in Computer Programming – Maricopa Community Colleges			56 semester credits
Remaining Credits Required at Grand Canyon University			64 semester credits
Total Credit Hours Needed to Complete Bachelor of Science in Computer Programming at Grand Canyon University			120 credits

\*Traditional campus students who have transferred in a minimum of 24 college level credits and have a 3.0 GPA or higher can waive the University Foundations course, UNV-303. For additional graduation requirements, please see the <http://www.gcu.edu/Policy-Handbook.php>.

To obtain a baccalaureate degree at Grand Canyon University (GCU), a student must earn a minimum of 36 semester credits in upper division (300 or above) courses.

A minimum of 120 credits are required for completion of this program of study. If taking one course at a time, this program will take on average 48 months at GCU. Students with transfer credit that applies to this program will shorten the time to completion from that stated on this transfer guide. Please contact your Academic Advisor for more information.

All Grand Canyon University programs follow a Program of Study, which can be changed by the University at any time. All Programs of Study are subject to the terms, conditions, and policies outlined in the University's enrollment application and the <http://www.gcu.edu/Policy-Handbook.php>.

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