

# Transfer Guide between Pima Community College and Grand Canyon University



## Associate of Applied Science in Programmer / Cyber Security Analyst – Bachelor of Science in Computer Programming

General Education requirements, excluding University Foundations and Christian Worldview, will be considered fulfilled in the event a student has completed one of the following Associate degrees:

- Associate of Arts (AA)
- Associate of Science (AS)

In the event a student has not earned one of the aforementioned Associate level degrees, all general education coursework will be required to complete GCU's Baccalaureate degree.

The following table outlines the requirements needed to receive an Associate of Applied Science in Programmer / Cyber Security Analyst from Pima Community College. Within the tables below are preferred courses from Pima Community College that are applicable towards Grand Canyon University's transfer-oriented Bachelor of Science degree programs. The General Education courses outlined below are not course to course equivalencies, however they will fulfill the requirements for each competency. If the General Education GCU course has a (+) symbol, it indicates that the transferring course must be a direct course equivalency. All Program Major Transferrable Courses must be a direct course equivalency.

Pima Community College – Associate of Applied Science in Programmer / Cyber Security Analyst	Credits	Grand Canyon University – Bachelor of Science in Computer Programming	GCU Applied Semester Credits
<b>General Education Requirements</b>			
<b>Effective Communication (9 - 12 Credits)</b>			
WRT-101: English Composition	3	+ ENG-105: English Composition	3
		# CST-326: Written and Verbal Communication for Software Development	
		# STG-390: Professionalism in Science & Technology: Communications, Conduct, and Ethics	
<b>Critical Thinking (11 - 12 Credits)</b>			
MAT-151: College Algebra <b>OR</b> MAT-188: Precalculus I	4	+ MAT-154: Applications of College Algebra	4
		# CST-361: Design Patterns in Java	
		# CST-424: Research Methods	
<b>Global Awareness (6 - 8 Credits)</b>			
		# ITT-415: IT Business Case Planning for Global Enterprise	
ECN-150: An Economic Perspective	3	Global Awareness	3
<b>Additional Pima Community College Requirements</b>			
STU-100: College Study Skills	1	Elective Credit	1
CIS-129: Programming and Problem Solving I	4	Elective Credit	4
CIS-162: Database Design and Development	3	Elective Credit	3

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BUS-125: eCommerce	3	Elective Credit	3
CIS-131: Programming and Problem Solving II	4	Elective Credit	4
CIS-141: Introduction to VB.NET	3	Elective Credit	3
MAT-172: Finite Mathematics	3	Does Not Apply to Program	
CIS-185: Introduction to Python	3	Does Not Apply to Program	
CIS-278: C++ and Object-Oriented Programming	4	Does Not Apply to Program	
CIS-280: Systems Analysis and Design - Concepts and Tools	3	Does Not Apply to Program	
<b>General Education – CTE Arts &amp; Humanities</b>	3	Does Not Apply to Program	
CIS-250: Introduction to Assembly Language	3	Does Not Apply to Program	
CIS-281: Systems Analysis and Design - Application Capstone	3	Does Not Apply to Program	
CIS-283: Advanced Python	4	Does Not Apply to Program	
<b>Bachelor of Science in Computer Programming: Program Major Transferrable Courses</b>			
CIS-279: Java Programming	4	CST-105: Computer Programming I	4
CIS-269: Data Structures	4	CST-201: Algorithms and Data Structures	4
<b>Total Credit Hours Needed to Complete an Associate of Applied Science in Programmer / Cyber Security Analyst at Pima Community College</b>			<b>62 Credits</b>
<b>Total Semester Credit Hours Applied to a Bachelor of Science in Computer Programming at Grand Canyon University</b>			<b>36 Credits</b>

All students must meet 36 Upper Division credit requirement, as well as 30 GCU credits to meet residency requirement. Students must meet Upper Division credit requirement even if content of an Upper Division course requirement is met with a Lower Division course.

Symbol Key	
+	Symbol indicates the Pima Community College course must meet specific content requirements (or higher) in order to fulfill GCU's course.
^	Symbol indicates the Pima Community College course meets the content requirement but does not fulfill GCU's upper division requirements.
#	Symbol indicates this course is a specified General Education course. This means the Pima Community College course must meet specific content requirements in order to fulfill GCU's course requirement. Please be advised specified General Education coursework is not treated like other general education coursework and is not automatically waived upon completion of a transfer-oriented Associates degree.

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Course #	Bachelor of Science	Semester Credits
<b>Non-transferable GCU General Education: 8 Credits</b>		
UNV-303	University Success	4
CWV-301	Christian Worldview	4
<b>General Education Requirements</b>		
# CST-326	Written and Verbal Communication for Software Development	4
# STG-390	Professionalism in Science & Technology: Communications, Conduct, and Ethics	4
# CST-361	Design Patterns in Java	4
# CST-424	Research Methods	4
# ITT-415	IT Business Case Planning for Global Enterprise	4
<b>Bachelor of Science in Computer Programming: Program Major</b>		
CST-117	Enterprise Applications Programming I	4
CST-126	Database Application Programming	4
CST-135	Computer Programming II	4
CST-227	Enterprise Applications Programming II	4
CST-236	Database Applications Programming II	4
CST-235	Computer Programming III	4
CST-247	Enterprise Applications Programming III	4
CST-256	Databased Application Programming III	4
CST-341	Open Source Computing	4
CST-221	Operating Systems Concepts	4
CST-323	Cloud Computing	4
ITT-307	Cybersecurity Foundations	4
CST-451	Senior Project I	4
CST-452	Senior Project II	4

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<b>Total Credit Hours Needed to Complete an Associate of Applied Science in Programmer / Cyber Security Analyst at Pima Community College</b>	62 Credits
Credits Completed at Grand Canyon University	84 Credits
Credits completed at Grand Canyon University may fluctuate contingent upon coursework successfully completed at the transferring institution. Courses are not listed twice on the transfer guide, so any courses not completed at the transferring institution will still be required as part of the GCU program. Students are required to complete a minimum of 120 credits to earn the Bachelor of Science degree. If the student completes additional courses at the transferring institution, credits may not apply to their GCU program.	
Remaining open elective credits needed to earn Bachelor of Science degree at Grand Canyon University varies based on program major requirements.	
<b>Total Credit Hours Needed to Complete a Bachelor of Science in Computer Programming at Grand Canyon University</b>	<b>120 Credits</b>

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For additional graduation requirements, please see the <https://www.gcu.edu/sites/default/files/media/Documents/Academic-Catalog/University-Policy-Handbook.pdf>. 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 Counselor for more information. <https://www.gcu.edu/sites/default/files/media/Documents/Academic-Catalog/University-Policy-Handbook.pdf>

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