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Associate of Applied Science in Cybersecurity – Bachelor of Science in Cybersecurity

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 Cybersecurity 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 Cybersecurity	Credits	Grand Canyon University – Bachelor of Science in Cybersecurity	GCU Applied Semester Credits
General Education Requirements			
Effective Communication (9 - 12 Credits)			
Required Support Course WRT-101: English Composition I	3	**+ ENG-105: English Composition**	3
Required Support Course CMN-120: Business and Professional Communications	3	Effective Communication	3
		Effective Communication	
Critical Thinking (11 – 12 Credits)			
		+ MAT-154: Applications of College Algebra	
Required Support Course MAT-106: Elementary Data with Spreadsheets	3	Critical Thinking	3
		Critical Thinking	
Global Awareness (6 - 8 Credits)			
General Education Arts and Humanities	3	Global Awareness	3
		# CYB-420: Global Perspectives on Cyberwarfare	
Additional Pima Community College Requirements			
Required Support Course STU-100: College Success and Career Planning	1	Elective Credit	1
General Education Social and Behavioral Science	3	Elective Credit	3
Required Core CIS-284: Cybersecurity Capstone	1	Elective Credit	1
Required Core CIS-136: Microcomputer Components	3	Elective Credit	2

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Required Core CIS-103: Microsoft Windows Operating Systems Professional Administration	3	Does Not Apply to Program	
Required Core CIS-137: Introduction to the UNIX Operating System	3	Does Not Apply to Program	
Required Core CIS-185: Introduction to Python	3	Does Not Apply to Program	
Required Core CIS-216: Introduction to Wireshark and Network Analysis	4	Does Not Apply to Program	
Required Core CIS-219: Introduction to Virtual Computing	3	Does Not Apply to Program	
Required Core CIS-221: Microsoft Windows Server	3	Does Not Apply to Program	
Required Core CIS-225: Linux (UNIX) System and Network Administration	3	Does Not Apply to Program	
Required Core CIS-234: Project Management	3	Does Not Apply to Program	
Required Core CIS-244: Securing Windows Server	3	Does Not Apply to Program	
Required Core CIS-245: Cyber Analytics, Detection, and Response	3	Does Not Apply to Program	
Bachelor of Science in Cybersecurity: Program Major Transferrable Courses			
Required Core CIS-119: Network Essentials	3	ITT-116:Platforms & Network Technologies	3
Required Core CIS-227: Cyber Law and Ethics	3	CYB-220: Cyberlaw and Privacy in a Digital Age	3
Required Core CIS-247: Ethical Hacking	3	^ ITT-340: Cybersecurity and Ethical Hacking	3
Required Core CIS-228: Fundamentals of Network Security	4	ITT-370: Wireless Network	4

Total Credit Hours Needed to Complete Associate of Applied Science in Cybersecurity at Pima Community College	**64 Credits**
Total Semester Credit Hours applied to Bachelor of Science in Cybersecurity at Grand Canyon University	**32 Credits**

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
Non-transferable GCU General Education: 8 Credits		
UNV-303	University Success	4
CWV-301	Christian Worldview	4
General Education Requirements		
	Effective Communication	4
	Critical Thinking	4
+ MAT-154	Applications of College Algebra	4
# CYB-420	Global Perspectives on Cyberwarfare	4
Bachelor of Science in Cybersecurity : Program Major		
CST-111	Introduction to Computer Science and Information Technology	4
CYB-201	Algorithms and Discrete Mathematics for Cybersecurity	4
ITT-270	Routing and Switching	4
ITT-210	Low Level Programming	4
ITT-121	System Administration and Maintenance	4
STG-390	Professionalism in Science & Technology-Communications, Conduct, and Ethics	4
ITT-307	Cybersecurity Foundations	4
ITT-310	Programming for Security Professionals	4
CYB-320	Malware Analysis	4
CYB-350	Social Aspects of Cybersecurity	4
ITT-375	Cyber Forensic Investigations	4
ITT-380	Information Assurance	4
ITT-430	Security Driven Systems Administration	4
ITT-415	IT Business Case Planning for Global Enterprise	4
ITT-455	IT Project	4
ITT-425	Analysis, Design, and Management of Secure Corporate Networks	4

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Total Credit Hours Needed to Complete an Associate of Applied Science in Cybersecurity at Pima Community College	64 Credits
Credits Completed at Grand Canyon University	88 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.

Total Credit Hours Needed to Complete Bachelor of Cybersecurity at Grand Canyon University	**120 Credits**

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#	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.

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

Effective 2020