CAPITOL
Technology University

Bachelor of Science in Cybersecurity Plan File (PPF) Category I

Degree Requirements	Required Semester Credits	CCAF Transfer Credits	Course Credits to take at Institution
Programming, Computer Science, and Information Assurance	**63**	**30**	**33**
CS-120 Into to Programming Using Python	3	3	
CS-150 Intro to Programming Using C	3	3	
CS-200 Intro to Object Oriented Programming C++	3	3	
CS-220 Database Management	3		3
CS-230 Data Structures	3		3
CS-250 Intro to Network Programming Using C	3	3	
CS-300 Secure Coding	3		3
CS-418 Operating Systems	3	3	
CT-152 Introduction to Unix	3		3
NT-150 Intro to Networking	3		
CT-240 Internetworking w/Routers/Switches	3		3
IAE-201 Introduction to IA Concepts (3)	3	3	
IAE-250 Comprehensive Computer/Network Security (*Formerly IAE-301*)	3	3	
IAE-260 Secure Sys Admin & Operation (*Formerly IAE-315*)	3		3
IAE-321 Applied Wireless Network Security	3	3	
IAE-325 Secure Data Communications and Cryptography	3	3	
IAE-390 Penetration Testing (*Formerly IAE-410*)	3		3
IAE-402 Intro to Incident Handling/Malicious Code	3	3	
IAE-405 Malware Analysis/Reverse Engineering	3		3
IAE-406 Digital Forensics and the Investigative Process	3		3
IAE-457 Senior Project I (*Formerly EN-408*)	3		3
IAE-458 Senior Project II	3		3

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General Education	42	18	24
English, Humanities, and Social Sciences			
EN-101 English Communications I	3	3	
EN-102 English Communications II	3	3	
HU-331 or HU-332 Arts and Ideas	3		3
SS-351 Ethics	3		3
Humanities Elective	3		3
Humanities Elective	3	3	
Social Science Elective	3	3	
Social Science Elective	3	3	
Management			
BUS-101 Intro to Data Science (*Replaced BUS-174 as a requirement.*)	3		3
BUS-301 Project Management	3		3
Mathematics and Science			
MA-112 Intermediate Algebra	3	3	
MA-124 Discrete Math	3		3
MA-128 Introduction to Statistics	3		3
Science Elective	3		3
Electives	**12**	**12**	**0**
General Elective	3	3	
General Elective	3	3	
General Elective	3	3	
General Elective	3	3	
Total Credits Required Bachelor of Science (B.S.) in Cybersecurity Degree	**120**	**60**	**60**

Capitol Technology University August 2021