



**Bachelor of Science in Cybersecurity/Catawba Valley Community
College AAS in Information Technology: Systems Security**

Degree Requirements	Required Semester Credits	CVCC Transfer Credits	Credits to take at Capitol
Core/Area of Focus	66	33	33
Programming and Computer Science	33	15	18
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
CT-152 Introduction to Unix	3	3	
CS-418 Operating Systems	3	3	
CT-206 Scripting Languages	3		3
CT-240 Internetworking w/Routers/Switches	3	3	
NT-150 Introduction to Networking	3	3	
Information Assurance	33	18	15
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	21	21
English, Humanities, and Social Sciences	24	15	9
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	6	0	6
BUS-101 Intro to Data Science (Replaced BUS-174 as a requirement.)	3		3
BUS-301 Project Management	3		3
Mathematics and Science	12	6	6
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	66	54

*These credits can be awarded for ENG 112 if taken instead of COM 231

**These credits can be awarded for COM 231 if taken instead of ENG 112; it is not equivalent to EN 102 at CTU

***These credits can be awarded for MAT 171 if taken instead of MAT 152

**** These credits can be awarded for MAT 152 if taken instead of MAT 171