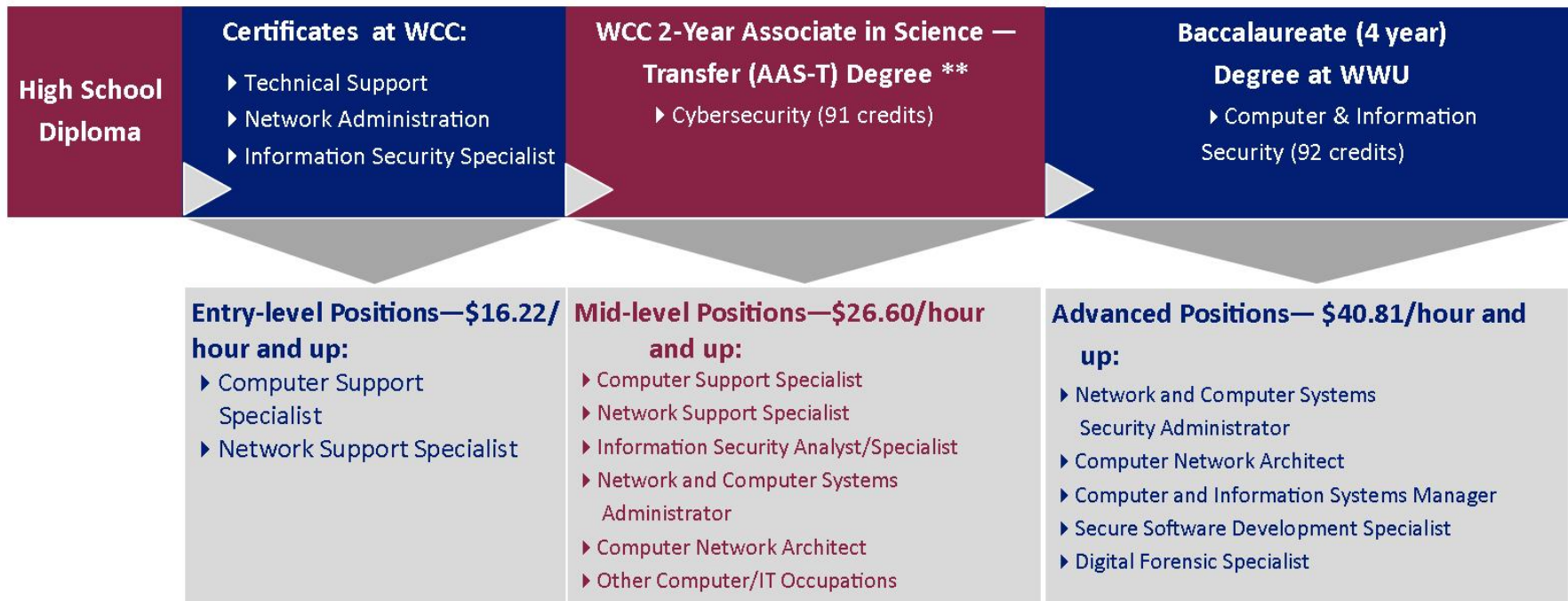


Sample Career and Educational Pathways in Cyber/Computer Information Systems Security through Whatcom Community College & Western Washington University



**Additional course articulations between Bellingham Technical College and WCC may apply. The AAS-T degree is built upon the technical courses required for job preparation but also includes a college-level general education component common in structure for all degrees. The general education component of the transferable technical degree is comprised of not less than 20 credits of courses generally accepted in transfer.



Whatcom Community College

CORE REQUIREMENTS

<i>Course ID</i>	<i>Course Title</i>	<i>Credits</i>
CS 140	Programming Fundamentals I	5
CS 145	Programming Fundamentals II	5
CIS 106	Open Source Operating Systems	5
CIS 110	Introduction to Computer Security	3
CIS 116	Virtualization	3
CIS 205	Computer Operating Systems II	5
CIS 214	Network Security I	5
CIS 215	Network Security II	5
CIS 216	Industrial Control Systems Security	5
CIS 226	Cisco Networking I	5
CIS 227	Cisco Networking II	5
CIS 228	Cisco Networking III	5
CIS 229	Cisco Networking IV	5
Total		61

RELATED INSTRUCTION*/GENERAL EDUCATION REQUIREMENTS

<i>Course ID</i>	<i>Course Title</i>	<i>Credits</i>
MATH& 141	Precalculus I	5
MATH& 142	Precalculus II	5
MATH& 151	Calculus I	5
ENGL& 101	English Composition I (CM)	5
PHYS& 221	Engineering Physics I	5
PHIL 130	Introduction to Ethics	5
Electives	Any college courses numbered 100 or above	0-7
Total		30

TOTAL CREDITS

91

Students may enter the program at any quarter, but should be aware that some classes are offered only once a year. Students should plan to complete required English and math courses within their first 30 credits of study.

* CM = Communication, HR = Human Relations, CP = Computation

Final two years at Western Washington University

REQUIRED COMPUTER INFORMATION SYSTEM SECURITY (CISS) COURSES			
<i>Course ID</i>	<i>Course Title</i>	Upper-division	Credits
CISS 247 (req?)	Computer Systems I		5
CISS 301	Formal languages and Functional Programming	5	5
CISS 349	Computer System Administration	4	4
CISS 360	Operating Systems Concepts	3	3
CISS 461	Computer Security	4	4
CISS 495	Computer Security Project	3	3
Total		19	24

REQUIRED SUPPORT COURSES			
<i>Course ID</i>	<i>Course Title</i>	Upper-division	Credits
ENG 302	Technical Writing	5	5
ISTM 201	Science Literacy		3
MATH 125	Calculus 2		5
MATH 341	Probability and Statistical Inference	4	4
PHYS 162	Physics with Calculus II		5
Total		9	22

CISS ELECTIVES (choose four courses)			
<i>Course ID</i>	<i>Course Title</i>	Upper-division	Credits
CISS 346	Secure Software Development	4	4
CISS 421	Computer Forensics	4	4
CISS 422	Dynamic Analysis of Software	4	4
CISS 423	Software Reverse Engineering	4	4
CISS 464	Penetration Testing	4	4
CISS 469	Advanced Network System Security	4	4
CISS 478	Cryptographic Techniques	4	4
CISS 346	Secure Software Development	4	4
TOTAL CREDITS		16	16
TOTAL CREDITS		44	62

RECOMMENDED GUR COURSES			
<i>Course ID</i>	<i>Course Title</i>	Upper-division	Credits
JOUR 190	Introduction to Mass Media		5
JOUR 375	Diversity, Mass Media & Social Change	4	4
LBRL 325	Surveillance, Voyeurism and the Culture of Suspicion	4	4
MGMT 271	Law & the Business Environment		4
PHIL 360	Society, Law and Morality	3	3
PLSC 250	The American Political System		5
PLSC 346	Politics of Inequality	5	5
Total		16	30