

CYBERSECURITY - ADVANCED TECHNICAL CERTIFICATE (ATC)

Explore More About This Program: <https://cwi.edu/program/cybersecurity>

Certificate Requirements

Course	Course Title	Min Credits
General Education Requirements		
<i>Complete one of the following courses to fulfill the GEM 1 or GEM 2 requirement:</i>		
Select one of the following:		3
GEM 1 - Written Communication course		
GEM 2 - Oral Communication course		
<i>Complete the following course to fulfill the GEM 3 requirement:</i>		
GEM 3 - Mathematical Ways of Knowing course		3
<i>Complete the following course to fulfill the GEM 6 requirement:</i>		
GEM 6 - Social & Behavioral Ways of Knowing course		3
Major Requirements		
CSEC 110	Introduction to Hardware and Client Operating Systems	4
CSEC 123	Network Fundamentals	4
CSEC 125	Basic Network Routing	4
CSEC 127	Server Operating Systems	4
CSEC 129	Fundamentals of Linux	4
CSEC 131	Introduction to Information Security	4
CSEC 246	Securing a Directory Services Infrastructure	4
CSEC 248	Advanced Cybersecurity	4
CSEC 252	Introduction to Programming for Cybersecurity	4
CSEC 255	Ethical Hacking and Countermeasures	4
CSEC 257	Introduction to Digital Forensics	4
CSEC 290	Cybersecurity Capstone	4
Minimum Credit Hours Required		57

Gainful Employment: For more information about our graduation rates, the median debt of students who have completed the program, and other important information, please visit our website at cwidaho.cc/ge (<https://cwidaho.cc/ge>).

Plan of Study Guide

Below is the required sequence of courses that you need to take in order to complete your program requirements. Please register for each semester as shown below using the Student Planning tool in myCWI. Consult your Student Success Advisor for any questions regarding this course sequence plan.

First Year

Fall		Credit Hours
CSEC 110	Introduction to Hardware and Client Operating Systems	4
CSEC 123	Network Fundamentals	4
CSEC 125	Basic Network Routing	4
Total Semester Credit Hours		12
Spring		
CSEC 127	Server Operating Systems	4
CSEC 129	Fundamentals of Linux	4

CSEC 131	Introduction to Information Security	4
Select one of the following:		3
GEM 1 - Written Communication course		
GEM 2 - Oral Communication course		
Total Semester Credit Hours		15
Second Year		
Fall		
CSEC 246	Securing a Directory Services Infrastructure	4
CSEC 248	Advanced Cybersecurity	4
CSEC 252	Introduction to Programming for Cybersecurity	4
GEM 3 - Mathematical Ways of Knowing course		3
Total Semester Credit Hours		15
Spring		
CSEC 255	Ethical Hacking and Countermeasures	4
CSEC 257	Introduction to Digital Forensics	4
CSEC 290	Cybersecurity Capstone	4
GEM 6 - Social & Behavioral Ways of Knowing course		3
Total Semester Credit Hours		15
Minimum Credit Hours Required		57

Program Outcomes

The following are student learning outcomes for the Advanced Technical Certificate in Cybersecurity at CWI:

1. Apply computational, communication, and human relations skills to meet industry expectations.
2. Demonstrate safety practices per industry standard.
3. Display a working knowledge of implementing, managing, and securing a network infrastructure including web servers, email servers, and file and print servers as required by industry.
4. Articulate the CBK (common body of knowledge) for security professionals with two years of security experience as required by industry.
5. Demonstrate industry standard proficiencies in network penetration testing, "white hat" hacking, and deployment of preventative countermeasures.
6. Implement forensically sound techniques in crime scene investigation including the collection, processing, preservation, and analysis of forensic evidence.
7. Meet CompTIA Security + Certification requirements.