Degree/Certificate Details



AAS-T Degree

Cybersecurity & Computer Forensics

Year One (Sample schedule)

Quarter One (Fall)

CSIA 110 Intro to Cybersecurity & Cybercrime	5
C SC 100 Intro to Computer Science	ō
MATH& 141 Pre-calculus I *	ō

Quarter Two (Winter)

CSIA 185 Cybersecurity 1- Risks, Control & Encryption	5
CSIA 280 Intro to Computer Forensics & Tools	5
CS& 141 Programming I*	5

Quarter Three (Spring)

CS 142 Programming II*5
\Box IT 114 Database Design and Implmentation5
SOCSI Contemporary Global Issues

Year Two (Sample schedule)

Quarter Four (Fall)

CSIA 195 Cybersecurity 3- Ethical Hacking5
□ IT 225 Windows Domains OR □ IT 260 Unix/Linux Systems
OR 🗌 IT 107 Intro to Networking5
ENGL& 101 English Composition I5

Quarter Five (Winter)

CSIA 290 Cybersecurity Capstone5	
MATH& 142 Pre-calculus II*5	
ENGL& 102 English Composition II*5	

Quarter Six (Spring)

□ MATH& 151 Calculus I: Analytic Geometry*5
CSIA 190 Cybersecurity II: Securing the Modern Enterprise5
PSYC& 100 General Psychology5

Total Credits Required 90

Specifics

Length of Program

Courses with prerequisites, and the placement level of the student, may extend the Length of Program listed on this page.

Which Quarter Can I begin?

The typical student schedule is based on entering the program during the fall quarter, however some programs allow students to enter in t he winter or spring as well. Since not all do, please confirm with an advisor whether this program must be started during a specific quarter or not.

A Note About Transfer Degrees?

Students who wish to transfer to four-year colleges/universities or to technical institutions should obtain the institution's catalog and review the requirements for the program to which they would like to transfer. Faculty advisors will work with the student to develop an educational-plan to meet requirements for a transfer.

Details

Completion Award:	AAS-T Degree
Length of Program:	6 Quarters
Program Code:	CISCCAAS

Program Coordinator (contact with questions)

Eric Waterkotte	(360) 417-6270
Office: M207	ewaterkotte@pencol.edu

Apply online: http://pencol.edu/GetStarted

Notes

*Note: CS& 141, CS 142, MATH& 141, MATH& 142, MATH& 151, and ENGL& 102 are required for transfer to Western Washington University. Students should work with the Cybersecurity Program Advisor to ensure transfer requirements are met.

Degree/Certificate Details



AAS-T Degree

Cybersecurity & Computer Forensics

Program Description

Increased cybersecurity threats and new homeland security policies have produced a growing national demand for cybersecurity professionals with knowledge of cybersecurity, ethical hacking, intrusion testing, vulnerability assessment, and computer forensics. In addition, the growth of universal and mobile computing require new approaches to information security and the protection of information systems from unauthorized access, modification, or destruction. The Cybersecurity and Computer Forensics program prepares students for entry level employment in cybersecurity and computer forensics careers including cyber incident and response, vulnerability detection and assessment analyst, computer forensic analyst, and computer forensics investigator. Foundation courses introduce students to the legal, ethical, and theoretical issues in cybersecurity and computer forensics technology. Core courses expand student depth and skills in ethical hacking, criminal justice, evidentiary analysis, and the development of a forensically sound environment. Capstone courses provide practicum experience and opportunity to participate in the Collegiate Cyber Defense Competition (CCDC). Successful completion of this program leads to an Associate of Applied Science degree Cybersecurity and Computer Forensics. Students are required to have access to computer, internet, and browser. This degree can be completed online.

Program Goals

- The program encourages students to explore the legal, ethical, and global impact of cybercrime on private, public, and personal computing infrastructures.
- The courses are based on the CNSSI standards established by the U.S. National Security Agency (NSA) for training information systems security professionals.
- The program provides up to date curriculum that adapts to the rapidly changing field of cybersecurity and computer forensics.
- The Peninsula College Cybersecurity and Computer Forensics program is significantly more cost effective than most private and public schools.

Student Learning Outcomes

When this program is completed, the student will be able to:

- Demonstrate an understanding of the core concepts, tools, and methods used to secure computer systems.
- Identify and present indicators that a cybersecurity incident has occurred.
- Apply criminal justice methods to cybersecurity and computer forensic investigations.
- Plan, implement, and evaluate penetration testing and ethical hacking of computer systems.
- Identify, analyze, and mitigate threats to internal computer systems.

- Collect, process, analyze, and present computer forensic evidence.
- · Work in teams to analyze and resolve cybersecurity issues.
- Apply critical thinking skills to risk analysis of computer systems.

Career Opportunities

There is a high demand for talented people with cybersecurity skills; and an increasing number of employers are seeking workers with knowledge of Computer forensics tool. Graduates may find positions with a variety of critical infrastructure companies and organizations in the public and private sectors. Some employers may require employee background checks.

Potential Positions and Earning

Potential positions include: Cybersecurity specialist, information security analyst, incident responder, system and network penetration tester, security monitoring and event analysis, and computer forensic analyst.

For current employment and wage estimates, please visit and search for the relevant occupational term: www.bls.gov/oes

Assessment

Students entering this program should have good familiarity with computer software and hardware in the Windows or MAC environment. Students are required to place into the English and math/applied math courses required for this program. Learn more about placement options by visiting the Assessment and Placement website: http://www.pencol.edu/placement-testing

Approximate Additional Costs

Books, supplies and miscellaneous fees (per quarter).....\$200.00 - \$250.00