

CYBERSECURITY FOUNDATIONS O.E.C.

Program Requirements

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Minimum Requirements for Cybersecurity Foundations Occupational Endorsement: 18 credits

Students must earn a C- grade or better in each course.

Code	Title	Credits
General University Requirements		
Complete the general university requirements. (https://catalog.uaf.edu/endorsements/#guoccupationalendorsementstext)		
Occupational Endorsement Requirements		
Complete the occupational endorsement requirements. (https://catalog.uaf.edu/endorsements/#occupationalendorsementrequirementstext)		
Cybersecurity Foundations Program Requirements		
Complete the following:		
CITS F204	Introduction to Computer Networks	3
CITS F205	Introduction to Coding and Programming	3
CITS F212	Server Operating Systems	3
CITS F261	Computer and Network Security	3
CITS F262	Cybersecurity Defense and Countermeasures	3
CITS F263	Network Security Penetration Testing	3
Total Credits		18

Road Maps

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Road Maps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Some courses and milestones must be completed in the semester listed to ensure timely graduation. Transfer credit may change the road map.

This road map should be used in conjunction with regular academic advising appointments. All students are encouraged to meet with their advisor or mentor each semester. Requirements, course availability and sequencing are subject to change.

Course	Title	Credits
First Year		
Fall		
CITS F204	Introduction to Computer Networks	3
CITS F205	Introduction to Coding and Programming	3

CITS F261	Computer and Network Security	3
Credits		9
Spring		
CITS F212	Server Operating Systems	3
CITS F262	Cybersecurity Defense and Countermeasures	3
CITS F263	Network Security Penetration Testing	3
Credits		9
Total Credits		18

Program Learning Outcomes

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Program learning outcomes are measurable statements that describe knowledge or skills achieved by students upon completion of the program.

Students graduating with this program will be able to demonstrate:

- Demonstrate knowledge and skills related to installing, configuring, securing, and troubleshooting the devices, protocols, and services within a network infrastructure.
- Demonstrate knowledge and skills related to installing, configuring, maintaining, and securing server operating systems, including how to configure and administer network accounts, resources, and common services deployed on server operating systems.
- Demonstrate an ability to interpret and write basic programming constructs such as if-then statements, loop control, functions, arrays, simple input-output, searching, and recursion.
- Demonstrate advanced cybersecurity knowledge and skills related to analyzing internal and external security threats, technical vulnerability testing and examination techniques, developing security policies, and implementing security measures to protect information within an enterprise.