

INFORMATION TECHNOLOGY SPECIALIST A.A.S.

Program Requirements

< Back to Department (<https://catalog.uaf.edu/academic-departments/computer-information-technology-systems/>)

Minimum Requirements for Information Technology Specialist A.A.S.: 60 credits

CONCENTRATIONS: COMPUTING TECHNOLOGY (P. 1), NETWORK AND CYBERSECURITY (P. 2), AND NETWORK AND SYSTEM ADMINISTRATION (P. 2)

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/associates/#gurassociatedegreeextent)		
A.A.S. Degree Requirements		
Complete the A.A.S. degree requirements. (https://catalog.uaf.edu/associates/#AASrequirements)		15
As part of the A.A.S. requirements, complete the following:		
<i>Computation</i>		
ABUS F155	Business Math	
	or MATH F105 Intermediate Algebra	
or any course at the F100 level or above in mathematical sciences (computer science, math or statistics)		
<i>Human Relations</i>		
ABUS F154	Human Relations	
	or ANTH F100X Individual, Society and Culture	
	or SOC F101X Introduction to Sociology	
Information Technology Specialist Program Requirements		
Complete the following:		
CITS F204	Introduction to Computer Networks	3
CITS F205	Introduction to Coding and Programming	3
	or CS F103 Introduction to Computer Programming	
	or CS F201 Computer Science I	
CITS F212	Server Operating Systems	3
CITS F261	Computer and Network Security	3
CITS F281	Professional Practices in IT	3
CITS F284	Independent Project	3
	or CITS F285 Cooperative Work Experience	
Additional 6 credits from CIOS, CITS or CS electives		6
Concentration		
Complete one of the following:		21-22
Computing Technology		
Network and Cybersecurity		
Network and System Administration		

Pass a certification review requiring students to demonstrate proficiency in the following skill areas: network support and troubleshooting; system administration; cybersecurity; independent thinking; human relations and support; and professional practices.¹

Total Credits 60-61

¹ Prior to graduation, all students are required to pass a certification review that includes a hands-on scenario task and the development and presentation of a portfolio of work.

Note: Upon admission to the certificate or degree program, each student will be assigned a mentor/committee chair who will be responsible for determining the student's current level of competency in the various skill areas; assisting the student in determining the courses/experiences necessary for gaining competency in the deficient skill areas; setting up the student's committee to consist of the mentor and at least one other individual who may be a UA faculty member, an adjunct faculty member, or an expert in the student's community; arranging for practical experiences in the student's community; and organizing the committee's final assessment of the student's work and recommending award of the certificate or degree.

Concentrations

COMPUTING TECHNOLOGY

Code	Title	Credits
Computing Technology Concentration Requirements		
Complete 21-22 credits from the following or from program coordinator-approved courses:		21-22
CITS F201	Operating Systems Support	
CITS F203	Information Technology Support Fundamentals	
CITS F219	Operating Systems: Topics	
CITS F220	Implementing Internet Tools and Technologies	
CITS F221	Graphics and Multimedia for the Web	
CITS F222	Website Design	
CITS F240	System and Network Services Administration	
CITS F241	Networking and LAN Infrastructure Basics	
CITS F242	Routing and Switching Essentials	
CITS F243	Intermediate Networking and LAN Infrastructure	
CITS F245	Cloud Computing Foundations	
CITS F262	Cybersecurity Defense and Countermeasures	
CITS F263	Network Security Penetration Testing	
CITS F265	Directory Services Administration	
CITS F282	IT Troubleshooting Skills	
CITS F289	Information Technology: Topics	
Total Credits		21-22

NETWORK AND CYBERSECURITY

Code	Title	Credits
Network and Cybersecurity Concentration Requirements		
Complete the following:		
CITS F241	Networking and LAN Infrastructure Basics	4
CITS F242	Routing and Switching Essentials	4
CITS F243	Intermediate Networking and LAN Infrastructure	4
CITS F245	Cloud Computing Foundations	3
CITS F262	Cybersecurity Defense and Countermeasures	3
CITS F263	Network Security Penetration Testing	3
Total Credits		21

NETWORK AND SYSTEM ADMINISTRATION

Code	Title	Credits
Network and System Administration Concentration Requirements		
Complete the following:		
CITS F240	System and Network Services Administration	3
CITS F241	Networking and LAN Infrastructure Basics	4
CITS F242	Routing and Switching Essentials	4
CITS F243	Intermediate Networking and LAN Infrastructure	4
CITS F245	Cloud Computing Foundations	3
CITS F265	Directory Services Administration	3
Total Credits		21