# Information Technology Specialist

College of Rural and Community Development Bristol Bay Campus 907-842-5109 Chukchi Campus 907-442-3400 Interior-Aleutians Campus 907-474-5439 Kuskokwim Campus 907-543-4500 Northwest Campus 907-443-2201 Tanana Valley Campus 907-455-2800 www.tvc.uaf.edu/its/

# Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 30 credits; for A.A.S. Degree: 60 – 61 credits

The Information Technology Specialist certificate and associate programs teach students how to use, support, implement, and trouble-shoot the computer and information technology systems found in educational, governmental and corporate settings.

The certificate program focuses on teaching students the essential skills required to effectively use and troubleshoot computer and computer applications. Students completing the certificate program can continue their education in the Information Technology Specialist A.A.S. or the Applied Business A.A.S. degree program.

The A.A.S. degree program prepares individuals to implement, support, and troubleshoot computer and information technology systems and obtain employment as an IT professional. Associate degrees in computer technology support, network and system administration, and web development and administration are offered.

Students entering either the certificate or A.A.S. degree program should meet with a faculty advisor to discuss program content requirements and develop an education plan that matches the current skills and goals of the student. Students entering the certificate program are expected to have basic computer skills equivalent to CIOS F150. While not a requirement, it is recommended that students applying for admission into the associate program have computer experience equivalent to CIOS F128.

This degree program is delivered collaboratively within the UA system.

### **Certificate Program**

- 1. Complete the general university requirements (page 92).
- 2. Complete the certificate requirements. (See page 94. As part of the human relations requirement, complete ABUS F154 or ANTH F100X/SOC F100X or approved human relations course.)
- 3. Complete the following program (major) requirements\*:

b	. Complete 9 credits from the following or program coordinator approved:
	CIOS F133—Microcomputer Presentation Software (3)
	CIOS F189—Microcomputer Applications: Topics ** (3)
	CIOS F233—Desktop Publishing (3)
	CIOS F240—Microcomputer Databases (3)
	CIOS F255—Microcomputer Graphics (3)
	CIOS F258—Digital Photography (3)
	CITS F201—Microcomputer Operating Systems Support (3)
	CITS F202—Microcomputer Hardware Support (3)
	CITS F203—Information Technology Support
	Fundamentals (4)
	CITS F204—Introduction to Network Support and Administration
	(3)
	CITS F220—Implementing Internet Tools and Technologies (3)
	CITS F221—Graphics and Multimedia for the Web (3)9
	CITS F222—Internet Authoring and Design (3)
4.	Pass a certification review requiring students to demonstrate

proficiency in the effective use of applications, operating systems, and the Internet.

5. Minimum credits required......30

### Major — A.A.S. Degree

Concentrations: Computer Technology Support, Network and System Administration, Web Development and Administration

#### **Computer Technology Support**

- 1. Complete the general university requirements (page 92).
- 2. Complete the A.A.S. degree requirements. (See page 96. As part of the human relations requirement complete ABUS F154, ANTH F100X/SOC F100X or approved human relations course.)
- 3. Complete the following program (major) requirements:\*



coordinator approved: CITS F212—Server Operating Systems (3) CITS F219—Microcomputer Operating Systems: Topics ** (3)	proficiency in the following skill areas: Network Infrastructure and System Administration Skills, Independent Thinking Skills, Human Relations and Support Skills, Professional Practices
CITS F220—Implementing Internet Tools and Technologies (3) CITS F221—Graphics and Multimedia for the Web (3)	5. Minimum credits required61
CITS F222—Internet Authoring and Design (3) CITS F224—Web Scripting (3)	Web Development and Administration
CITS F225—Web Databases and Programming (3) CITS F228—Advanced Website Design and Development (3)	1. Complete the general university requirements (page 92).
CITS F240—System and Network Services Administration (3) CITS F241—Networking and LAN Infrastructure Basics (4) CITS F242—Routers and Routing Concepts (4)	2. Complete the A.A.S. degree requirements. (See page 96. As part of the human relations requirement complete ABUS F154 or ANTH F100X/SOC F100X or approved human relations course.)
CITS F243—Intermediate Networking and LAN Infrastructure (4) CITS F244—Advanced Networking Infrastructure Services (4) CITS F249—Networking and Communications: Topics** (3) CITS F261—Computer and Information Security (3) CITS F265—Directory Services Administration (3) CITS F282—IT Troubleshooting Skills (3) CITS F289—Information Technology: Topics (1-3) ** 15-16 Complete the following IT professional courses: CITS F281—Computer Technical Support	3. Complete the following program (major) requirements:*  a. Complete the following system administration courses:***  CITS F204—Introduction to Network Support and Administration
<ol> <li>Complete the general university requirements (page 92).</li> <li>Complete the A.A.S. degree requirements. (See page 96. As part of the human relations requirement complete ABUS F154 or ANTH F100X/SOC F100X or approved human relations course.)</li> </ol>	4. Pass a certification review requiring students to demonstrate proficiency in the following skill areas: Web Development and System Administration Skills, Independent Thinking Skills, Human Relations and Support Skills, Professional Practices
3. Complete the following program (major) requirements:* a. Complete the following system administration courses:*** CITS F204—Introduction to Network Support and Administration	<ul> <li>Student must earn a C grade or better in each course.</li> <li>May be repeated for different topics.</li> <li>Students are expected to have completed CITS F201 and F202 or CITS F203 or possess equivalent skills prior to beginning course work in this area.</li> <li>Note: Upon admission to the certificate or degree program, each student will be assigned a mentor/committee chairperson 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.</li> </ul>

4. Pass a certification review requiring students to demonstrate

b. Complete 15-16 credits from the following or program



All degrees (e.g. Certificate, A.A., A.A.S., A.S., etc) require additional courses. Refer to specific degree and program requirements.

#### **Associate of Applied Science Certificate Requirements** Requirements **COMMUNICATION (2-3)** Complete one of the following: **COMMUNICATION (9)** ENGL F111X.....(3) \_ ABUS F170 ......(3) \_\_ ENGL F111X.....(3) — ABUS F271 .....(3) \_\_ Complete one of the following: ENGL F211X.....(3) ABUS F271 .....(3) ENGL F212.....(3) ENGL F211X....(3) ENGL F213X.....(3) ENGL F212 .....(3) COMM F131X.....(3) ENGL F213X....(3) COMM F141X.....(3) \* ENGL F212 does not fulfill the second half of the written commu-DEVS F104.....(1 – 3) nication requirement for the bachelor's degree. DEVS F105.....(3) **—** Other program-approved discipline-based communication course or discipline-based courses with embedded Complete one of the following: communication content. (2-3)COMM F131X.....(3) \* ENGL F212 does not fulfill the second half of the written commu-COMM F141X.....(3) nication requirement for the bachelor's degree. **COMPUTATION (3) COMPUTATION (2-3)** Complete one of the following: Complete one of the following: Any course at the F100-level or above in mathematical sciences Any course at the F100-level or above in mathematical sciences (computer science, math or statistics).....(3) (computer science, math or statistics).....(3) ABUS F155.....(3) ABUS F155 ......(3) **-**DEVM F105.....(3) DEVM F105.....(3) -ECE F117.....(3) ECE F117.....(3) **–** HLTH F116 .....(3) HLTH F116 ......(3) -HUMS F117.....(3) HUMS F117.....(3) -PRT F155.....(3) PRT F155.....(3) -TTCH F131 .....(3) -TTCH F131 .....(3) **–** Other program-approved discipline-based computa-Other program-approved discipline-based computation course or discipline-based courses with embedded tion course or discipline-based courses with embedded computation content. (2 - 3)computation content. **HUMAN RELATIONS (2-3) HUMAN RELATIONS (2-3)**

# Complete one of the following:

human relations content. (2-3)

ANTH F100X/SOC F100X(3)			
ABUS F154(3)			
ANL F287(3)			
ECE F245(3)			
ED/PSY F245(3)			
HLTH F106(3)			
HUMS F120(3)			
RHS F110(1)			
AND RHS F115(2)			
Other program-approved discipline-based human rela-			
tions course or discipline-based courses with embedded			

MAJOR SPECIALTY CREDITS (minimum)......21

Minimum credits for required certificate......30

## Complete one of the following:

ANTH F100X/SOC F100X(3)			
ABUS F154(3)			
ANL F287(3)			
ECE F245(3)			
ED/PSY F245(3)			
HLTH F106(3)			
HUMS F120(3)			
RHS F110(1)			
AND RHS F115(2)			
Other program-approved discipline-based human rela-			

Other program-approved discipline-based human relations course or discipline-based courses with embedded human relations content. (3)

MAJOR SPECIALTY CREDITS (minimum)......30

Minimum credits required for degree .......60



UNIVERSITY OF ALASKA FAIRBANKS

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