

# INFORMATION TECHNOLOGY AAS

Information Technology prepares students for a wide range of employment opportunities in the design, implementation and security of Internetworking solutions for small, medium and large enterprises. Positions involving technical support for small computer system hardware and software implementations embedded in local and wide area networks are supported through the use of the CompTIA, Microsoft, and network offerings. Major elements of this course of study include microcomputer theory, data communications, operating systems, security fundamentals including virus eradication, systems hardware and software analysis, virtualization, troubleshooting techniques, use of computer analysis hardware, and application of all of these elements in the work setting. This program has physical requirements that may affect the student's ability to perform in this field.

## Entrance Requirements

- Program has semester admittance (Fall and Spring).
- Enrollment priority is on a first-come, first-served basis as determined by the student's faculty advising date.
- Aleks score in Math of 30 or higher, Writing Placement Exam of 2 or higher, or qualify for MTHPT-137 and ENGL-101.

Upon completion of the Information Technology AAS degree, the student will have basic skills to:

- Understand and implement appropriate industrial standard safety measures for given situations.
- Use industry standard tools and diagnostic test equipment.
- Cyber security course will engage your understanding of online safety in the context of the wider world, introducing you to different types of malware, including viruses and trojans, as well as concepts such as network security, cryptography, identity theft and risk management.
- Setup, upgrade, configure and troubleshoot microcomputers and microcomputer peripherals.
- Install and maintain microcomputer-based applications.
- Setup, upgrade, configure, and troubleshoot microcomputer based operating systems including Linux and Microsoft Windows.
- Design, implement, and troubleshoot LAN solutions for a given specification using Windows Server and Linux. Solutions include the use of the appropriate network operating systems and provisions for Internet connectivity as well as proxy services, print services, file services, web services, DNS/DHCP, mail services, authentication and security, and management services.
- Design, install, and test structured cabling systems.
- Use the OSI model to configure switches, routers and multilayer switches to provide LAN and WAN connectivity in LAN, WAN and WLAN networks. In addition, standardized routing protocols will be applied to specific intranet solutions.
- Each student is required to obtain or complete the examination for at least one nationally recognized IT certification.
- Students must earn a grade of C or better in all required IT courses to qualify for the Associate of Applied Science degree in Information Technology.

## General Education Requirement

Code	Title	Credits
<b>Written Communication</b>		
Select one of the following:		6.00
ENGL-101 & ENGL-102	WRITING AND RHETORIC I and WRITING AND RHETORIC II	
ENGL-109	COLLEGE WRITING AND RESEARCH	
<b>Oral Communication</b>		
Select one of the following:		3.00
COMM-101	FUNDAMENTALS OF ORAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	
<b>Mathematical Ways of Knowing</b>		
Select one of the following:		4.00
MTHPT-137	MATH FOR TECHNOLOGY	
MATH-147	COLLEGE ALGEBRA AND TRIGONOMETRY	
<b>Social &amp; Behavioral Ways of Knowing</b>		
Select one of the following:		3.00
ANTH-102	CULTURAL ANTHROPOLOGY	
ANTH-120	WORLD PREHISTORY	
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	

ECON-201	PRINCIPLES OF MACROECONOMICS
ECON-202	PRINCIPLES OF MICROECONOMICS
GEOG-102	INTRODUCTION TO GEOGRAPHY
HIST-101	WORLD HISTORY I
HIST-102	WORLD HISTORY II
HIST-111	UNITED STATES HISTORY I
HIST-112	UNITED STATES HISTORY II
HRPT-184	DIVERSITY IN ORGANIZATIONS
HRPT-185	HUMAN RELATIONS IN ORGANIZATIONS
POLS-101	AMERICAN NATIONAL GOVERNMENT
POLS-237	INTERNATIONAL POLITICS
POLS-285	COMPARATIVE GOVERNMENT
PSYC-101	INTRODUCTION TO GENERAL PSYCHOLOGY
PSYC-205	LIFESPAN DEVELOPMENTAL PSYCHOLOGY
SOC-101	INTRODUCTION TO SOCIOLOGY
SOC-102	SOCIAL PROBLEMS

**Additional General Education Core**

Select one of the following: 3.00

ANTH-360	RACE AND ETHNICITY
ART-100	INTRODUCTION TO ART
BIOF-100	INTRODUCTION TO BIOINFORMATICS
BIOL-100	CONCEPTS OF BIOLOGY
BIOL-120	PLANTS AND PEOPLE
BIOL-123	BIOLOGY IN FILM
BIOL-175	HUMAN BIOLOGY
BIOL-227	HUMAN ANATOMY AND PHYSIOLOGY I
CHEM-100	CONCEPTS OF CHEMISTRY
CHEM-105	GENERAL, ORGANIC AND BIOCHEMISTRY
CHEM-111	PRINCIPLES OF CHEMISTRY I
CITPT-108	INTRODUCTION TO COMPUTER SCIENCE
COMM-345	COMMUNICATION AND DIVERSITY
CS-108	INTRODUCTION TO COMPUTER SCIENCE
ENGL-175	LITERATURE AND IDEAS
ENGL-257	WORLD CLASSICS
ENGL-258	INTERNATIONAL LITERATURE
ENGL-261	MYTHOLOGIES
FSCI-101	INTRODUCTION TO FORENSIC SCIENCE
GEOL-101	PHYSICAL GEOLOGY
GEOL-120	INTRODUCTION TO EARTH SYSTEMS
GIS-271	GEOGRAPHIC INFORMATION SYSTEMS
HUM-101	THE ART AND HISTORY OF THE MOTION PICTURE
HUM-150	INTRODUCTION TO THE ARTS
ID-240	INTEGRATED SCIENCE II
ID 300A - 300Z	(see course descriptions for options)
ID-301A	HELLS CANYON INSTITUTE
KIN-220	SOCIAL-CULTURAL ASPECTS OF SPORTS
NP-101	ELEMENTARY NEZ PERCE LANGUAGE I
NP-102	ELEMENTARY NEZ PERCE LANGUAGE II
NS-140	INTEGRATED SCIENCE I
NS-150	INTRODUCTION TO NATURAL SCIENCES
NS-174	NATURAL SCIENCE FOR ELEMENTARY EDUCATOR
PHYS-111	GENERAL PHYSICS I

or PHYS-112	GENERAL PHYSICS II
PHYS-171	PHYS SCIENCES FOR ELEMENTARY EDUCATORS
PHYS-205	DESCRIPTIVE ASTRONOMY
PHYS-211	PHYSICS FOR SCIENTISTS AND ENGINEERS I
SPAN-101	ELEMENTARY SPANISH I
SPAN-102	ELEMENTARY SPANISH II
SPAN-201	INTERMEDIATE SPANISH I
SPAN-202	INTERMEDIATE SPANISH II
SS-184	DIVERSITY IN ORGANIZATIONS
SS-185	HUMAN RELATIONS IN ORGANIZATIONS
THEA-101	SURVEY OF THE THEATER

**Total Credits** **19.00**

## Program Requirements <sup>1</sup>

Code	Title	Credits
<b>Technical Core</b>		
IT-231	INFORMATION SYSTEMS I	4.00
IT-232	INFORMATION SYSTEMS II	4.00
IT-233	INFORMATION SYSTEMS III	4.00
IT-234	INFORMATION SYSTEMS IV	4.00
IT-251	NETWORKING I	4.00
IT-252	NETWORKING II	4.00
IT-253	NETWORKING III	4.00
IT-254	NETWORKING IV	4.00
IT-271	CYBERSECURITY I	4.00
IT-272	CYBERSECURITY II	4.00
IT-273	CYBERSECURITY III	4.00
IT-274	CYBERSECURITY IV	4.00
<b>Total Credits</b>		<b>48.00</b>

<sup>1</sup> All program required courses need a grade of C or better.

## Sequential Plan of Study

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
ENGL-101	WRITING AND RHETORIC I	3.00
IT-231	INFORMATION SYSTEMS I	4.00
IT-251	NETWORKING I	4.00
IT-271	CYBERSECURITY I	4.00
<b>Credits</b>		<b>15.00</b>
<b>Spring</b>		
CORE	Mathematical Ways of Knowing	3.00-5.00
IT-232	INFORMATION SYSTEMS II	4.00
IT-252	NETWORKING II	4.00
IT-272	CYBERSECURITY II	4.00
<b>Credits</b>		<b>15.00-17.00</b>
<b>Second Year</b>		
<b>Fall</b>		
CORE	Oral Communication	3.00
CORE	Social & Behavioral Ways of Knowing	3.00

IT-233	INFORMATION SYSTEMS III	4.00
IT-253	NETWORKING III	4.00
IT-273	CYBERSECURITY III	4.00
<b>Credits</b>		<b>18.00</b>
<b>Spring</b>		
CORE	Additional General Education Course	3.00
ENGL-102	WRITING AND RHETORIC II	3.00
IT-234	INFORMATION SYSTEMS IV	4.00
IT-254	NETWORKING IV	4.00
IT-274	CYBERSECURITY IV	4.00
<b>Credits</b>		<b>18.00</b>
<b>Total Credits</b>		<b>66.00-68.00</b>

Graduates from Information Technology programs go on to obtain careers in a variety of fields:

- IT Security Specialist
- Cyber Security Technician
- IT Specialist
- Computer Network Architect
- Computer Systems Analyst
- Computer and Information Research Scientist

Click here for more videos related to this major (<https://www.candidcareer.com/video-it+specialist,302953cb0f166464ab35,LCSC/>)