

INFORMATION TECHNOLOGY AND SECURITY ACADEMY

1st Year Program of Studies

Courses in blue articulate into associates.

Fall Semester	Credit	Spring Semester	Credit
ITSC 1305 Intro to PC Operating Systems Introduction to personal computer operating systems including installation, configuration, file management, memory & storage management, control of peripheral devices & use of utilities.	3	ITNW 1425 Fundamentals of Networking Technologies* <i>*Testout Certification Network Pro</i> Introduction to architecture, structure, functions, components & models of the internet. Covers principles and structures of IP addressing, Ethernet, media & operations.	4
ITSC 1425 Personal Computer Hardware* <i>*Testout Certification PC Pro</i> Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.	4	ITSC 2439 Personal Computer Help Desk Support Diagnosis and solution of user hardware and software related problems with on-the-job and/or simulated projects.	4
Fall Semester Total	7	Spring Semester Total	8
Year 1 Total	Level I Certificate of Completion <i>Computer Desktop Support Technician</i>		15

Summer Semester	Credit
ITSY 2386 Internship: Computer and Information Systems Security Practical, general workplace training supported by an individualized learning plan.	3
Summer Semester Total	3

2nd Year Program of Studies

Courses in blue articulate into associates.

Fall Semester	Credit	Spring Semester	Credit
ITSC 1316 LINUX Installation & Configuration* Introduction to the UNIX operation system including multi-user concepts, terminal emulation, use of system editor, basic UNIX commands, & writing script files. Includes introductory system management concepts.	3	ITSE 1302 Computer Programming Introduction to computer programming with emphasis on the fundamentals of design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files.	3
ITSY 1342 Information Technology Security* <i>*Testout Certification Security Pro</i> Instruction in security for network hardware, software, and data including physical security, backup procedures, relevant tools, encryption, and protection from viruses.	3	ITSE 1311 Beginning Web Programming Skill development in web page programming including mark-up and scripting languages.	3
Fall Semester Total	6	Spring Semester Total	6
Year 2 Total	Level I Certificate of Completion <i>Information Technology & Security</i>		12

Two Year Program of Studies: 9 Courses totaling 30 credit hours

The Alamo Colleges do not discriminate on the basis of race, religion, color, national origin, sex, age, or disability with respect to access, employment programs, or services. Inquiries or complaints concerning these matters should be brought to the attention of: Director of Employee Services, Title IX Coordinator, (210) 485-0200.

Level I Certificate of Completion
Computer Desktop Support Technician

Level I Certificate of Completion
Information Technology & Security

ASSOCIATE OF APPLIED SCIENCES

Computer Information Systems

Semester 1	Credit
ITSC 1301 Introduction to Computers or other* Integrated	3
ITSC 1425 Personal Computer Hardware	4
ITSC 1305 Introduction to PC Operating Systems or other*	3
ENGL 1301 Composition I	3
1st Semester Total	13
Semester 2	Credit
ITNW 1425 Fundamentals of Networking Technologies or others*	4
ITNW 1454 Implementing and Supporting Servers	4
ITSC 1316 LINUX Installation and Configuration	3
ITSY 1324 Information Technology Security	3
2nd Semester Total	14
Semester 3	Credit
ITSE 1302 Select Language, Philosophy & Culture (40) or other* Computer Programming or other*	3
	3
3rd Semester Total	6
Semester 4	Credit
ITSC 2439 Personal Computer Help Desk Support	4
ITSE 1311 Beginning Web Programming	3
ITSC 2325 Advanced LINUX	3
ITSE 1345 Introduction to Oracle SQL	3
- Select Social & Behavioral Science (80) Core 3	3
4th Semester Total	16
Semester5	Credit
ITSE 2302 Intermediate Web Programming or	3
ITSY 2301 Firewalls and Networking Security	3
- Select Additional Communication (90) Core 3	3
- Mathematics (20) Core	3
ITSC 2264 Practicum Computer & Information Sciences	2
5th Semester Total	11
Program Total	60
DC/AA: 29	Total AAS Hours: 60
Hours Needed Post DC/AA: 31	General Academics: 15
	Specific Hours: 45