

Network Administration

As technologies continue to expand, the skills of a Network Administrator play a key role in ensuring that an organization’s computer systems are safeguarded against cybercrime, and that systems, networks, and technologies are reliable and conducive to business operations. Through the Network Administrator program at Angelina College, you will be prepared with key competencies needed in the workplace of tomorrow. As you pursue an Associate of Applied Science degree in Network Administration, new skills acquired focus on data recovery, backup methods, and network and infrastructure services. A degree in Network Administration prepares students to design, implement, monitor, and troubleshoot computer networks. All courses in the Level 1 (L1) certificates are applicable to the associate of applied science in the network administrator degree (AAS). The level 1 certificate programs in networking and cybersecurity at Angelina College are for students who wish to gain a general limited background required for many entry level network-related positions. The network administration curriculum provides a career path sequence of courses and awards that build upon each other. Completion in this program prepares a student for industry certifications such as CompTIA A+, CompTIA Server+, CompTIA Security+, CompTIA CySA+ (CyberSecurity), CompTIA Linux+, Cisco CCST (Certified Support Technician), Cisco CCNA (Certified Network Associate), and, the Cisco Certified CyberOps Associate (CBROPS).

Program Learning Outcomes (PLO)

PLO 1: Assemble networking devices to include hardware and operating system software.

PLO 2: Safeguard network devices, protocols, and services.

PLO 3: Appraise network performance to improve reliability of network services.

PLO 4: Synthesize data for systematization of network services.

PLO 5: Identify job skills required to gain employment in the technology field.

Courses Measuring the Achievement of Program Learning Outcomes

<u>Course</u>	<u>PLO 1</u>	<u>PLO 2</u>	<u>PLO 3</u>	<u>PLO 4</u>	<u>PLO 5</u>
ITCC 1444 (AAS)	X				
ITSY 1342 (AAS)		X			
ITNW 1453 (AAS)			X		
ITCC 2343 (AAS)				X	
ITNW 2264 (AAS)					X

NETWORK ADMINISTRATION AAS RECOMMENDED ACADEMIC PLAN

1ST YEAR, 1ST SEMESTER			Credit Hours	✓
STSU	0300	Student Success	0	<input type="checkbox"/>
ITSC	1305	Introduction to PC Operating Systems	3	<input type="checkbox"/>
ITCC	1414	CCNA 1: Introduction to Networks	4	<input type="checkbox"/>
ITSY	1342	Information Technology Security	3	<input type="checkbox"/>
ENGL	1301	Composition 1	3	<input type="checkbox"/>
SOCI	1301	Introduction to Sociology	3	<input type="checkbox"/>

1ST YEAR, 2ND SEMESTER				
ITNW	1454	Implementing and Supporting Servers	4	<input type="checkbox"/>
ITCC	1444	CCNA 2: Switching, Routing, and Wireless Essentials	4	<input type="checkbox"/>
ITCC	2420	CCNA 3: Enterprise Networking, Security and Automation	4	<input type="checkbox"/>
XXXX	#3##	Creative Arts Core	3	<input type="checkbox"/>

2ND YEAR, 1ST SEMESTER				
ITSC	1316	Linux Installation and Configuration	3	<input type="checkbox"/>
ITNW	1453	Supporting Network Server Infrastructure	4	<input type="checkbox"/>
ITNW	2405	Network Administration	4	<input type="checkbox"/>
MATH	1314	College Algebra	3	<input type="checkbox"/>

 **Apply for Graduation**

2ND YEAR, 2ND SEMESTER				
ITCC	2343	Network Security	3	<input type="checkbox"/>
ITSY	2430	Intrusion Detection	4	<input type="checkbox"/>
ITNW	1336	Cloud Deployment and Infrastructure Management	3	<input type="checkbox"/>
SPCH	1318	Interpersonal Communication	3	<input type="checkbox"/>
ITNW	2264	Practicum: Computer Systems Networking and Telecommunications	2	<input type="checkbox"/>

* **Earned:** *Associate of Applied Science in Network Administration*

Total Hours **60**