



Computer Information Systems – Networking
Level 1 Certificate

Technology Pathway

AC Course Number	Required Course Titles	Credit Hours	Semesters Offered	Course Modalities
FIRST YEAR				
First Semester				
<input type="checkbox"/> ITNW 1325	Fundamentals of Networking Technologies	3	F	F2F, Int
<input type="checkbox"/> ITNW 1408	Implementing and Supporting Client Operating Systems	4	Sp	Hyb
<input type="checkbox"/> ITNW 1454	Implementing and Supporting Servers	4	F	Hyb
<input type="checkbox"/> ITSY 2400	Operating System Security	4	F, Sp	Hyb
Second Semester				
<input type="checkbox"/> ITNW 1453	Supporting Network Server Infrastructure	4	Sp 2015	F2F
<input type="checkbox"/> ITNW 2354	Internet/Intranet Server	3	F 2010	F2F
<input type="checkbox"/> ITNW 1445	Implementing Network Directory Services	4	S 2015	F2F
SECOND YEAR				
First Semester				
<input type="checkbox"/> ITNW 2411 or ITNW 2452	Implementing Mail Servers or Administering SQL Server	4	Never for both options	
<input type="checkbox"/> ITSC 2380 or ITSC 2339	Cooperative Education, CIS or Personal Computer Help Desk Support	3	F, Sp	Int
TOTAL CREDIT HOURS		33		

* Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)
 Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)

Transfer Opportunities

Continue studies at Angelina College for Associate Applied Science (AAS)

Marketable Skills

- 1) Work well on a team
- 2) Define, explain and interpret technical information
- 3) Use critical thinking to identify strengths and weakness to determine solutions
- 4) Identify appropriate information sources
- 5) Use math to answer questions
- 6) Schedule/coordinate Operations
- 7) Use current technology to diagnose and solve problems
- 8) Use Troubleshooting to determine causes and decide what to do about it
- 9) Think on your feet

Career Opportunities and Salaries

Employment of network and computer systems administrators is projected to grow 6 percent from 2016 to 2026, about as fast as the average for all occupations. Demand for information technology (IT) workers is high and should continue to grow as firms invest in newer, faster technology and mobile networks. Growth also is expected as the use of IT in healthcare increases. However, an increase in cloud computing could raise the productivity of network administrators, slowing their growth across many industries.

Occupations, beginning salaries:

Network & Computer Systems Administrators Administration - \$42,897

Technical Skills

Computer networks are critical parts of almost every organization. Network and computer systems administrators are responsible for the day-to-day operation of these networks.