

Information Technology
Network and Cloud Administration (A25590CN)
A.A.S. Degree (Full-Time)
PROGRAM PLANNING GUIDE

New: Fall 2026

Curriculum By Semester

			Hours Per Week		Credits
			Class	Lab	
FALL SEMESTER					
CTI	110	IT Foundations	2	2	3
CTI	120	Network and Security Foundations	2	2	3
NOS	110	Operating System Concepts	2	3	3
ENG	111	Writing and Inquiry	3	0	3
		Mathematics Elective	3	2	3

SPRING SEMESTER					
CTI	140	Virtualization Concepts	1	4	3
CTI	141	Cloud and Storage Concepts	1	4	3
NOS	120	Linux/UNIX Single User	2	2	3
NET	125	Introduction to Networks	1	4	3
		Program Elective - Track 1 or Track 2	-	-	3

SUMMER SEMESTER					
NOS	130	Windows Single User	2	2	3
		Social and Behavioral Sciences Elec	-	-	3
		English Elective	3	0	3

FALL SEMESTER					
NET	126	Switching and Routing	1	4	3
CSC	121	Python Programming	1	4	3
CTS	115	Info Sys Business Concepts	3	0	3
		Humanities and Fine Arts Elective	-	-	3
		Program Elective - Track 1 or Track 2	-	-	3

SPRING SEMESTER					
NOS	230	Windows Admin I	2	2	3
NET	135	Data Center Networking	2	2	3
		Project Elective/Capstone	-	-	2
		6 credit hrs within chosen track)	-	-	6

GRADUATION REQUIREMENT:

Credit Hours 68

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Program Electives					
Track 1 - Cloud Specialist					
CTS	285	Systems Analysis and Design	3	0	3
CTI	240	Virtualization Admin I	1	4	3
NOS	220	Linux/Unix Admin I	2	2	3
CTI	241	Virtualization Admin II	1	4	3

Track 2 - Network and IT Support Specialist					
CTS	120	Hardware/Software Support	2	3	3
SEC	110	Security Concepts	2	2	3
NET	225	Enterprise Networking	1	4	3
NET	226	Network Programmability	1	4	3

Project Electives					
(choose a minimum of 2 credit hrs from the following courses)					
CTI	289	CTI Capstone Project	1	6	3
WBL	111MM	Work-Based Learning I-NM	0	10	1
WBL	112MM	Work-Based Learning 2-NM	0	20	2
WBL	111MH	Work-Based Learning I - Cloud	0	10	1
WBL	112MH	Work-Based Learning 2 - Cloud	0	20	2

General Education Electives					
English Electives					
(choose a minimum of 3 credit hrs from the following courses)					
COM	110	Intro to Communication	3	0	3
COM	120	Intro to Interpersonal Communication	3	0	3
COM	231	Public Speaking	3	0	3

Mathematics Electives					
(choose a minimum of 3 credit hrs from the following courses)					
MAT	121	Algebra/Trigonometry I	2	2	3
MAT	143	Quantitative Literacy	2	2	3
MAT	152	Statistical Methods I	3	2	4
MAT	171	Precalculus Algebra	3	2	4

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Humanities and Fine Arts Electives					
(choose a minimum of 3 credit hrs from the following courses)					
HUM	115	Critical Thinking	3	0	3
HUM	110	Technology and Society	3	0	3
PHI	240	Introduction to Ethics	3	0	3

Social and Behavioral Sciences Electives					
(choose a minimum of 3 credit hrs from the following courses)					
ECO	151	Survey of Economics	3	0	3
ECO	251	Principles of Microeconomics	3	0	3
POL	120	American Government	3	0	3
PSY	118	Interpersonal Psychology	3	0	3
PSY	150	General Psychology	3	0	3
SOC	210	Introduction to Sociology	3	0	3