

Network Management (A25590NM)

Program Planning Guides

2018 – 2019

Degree

Network Management - *Day*

Network Management – *Evening*

Diploma

Data Storage & Virtualization – D25590DV

Certificates

C25590CA	Cisco Network Associate
C25590CP	Cisco Network Professional
C25590CX	Cisco Security
C25590LX	Linux Certified IT Professional
C25590LS	Linux Security Specialist
C25590WS	Global Windows Security Admin
C25590MS	Microsoft Certified IT Professional

IT - Network Management (A25590NM)

A.A.S. Degree (Day)

PROGRAM PLANNING GUIDE

Updated: Fall 2017

Realignment: Fall 2016 (Replaces A25340 - Networking Technology Degree)

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester

			Hours Per Week		Credits
			Class	Lab	
FIRST SEMESTER					
CTI	110	Web, Programming and Database Foundations	2	2	3
CTI	120	Network and Security Foundations	2	2	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
NOS	110	Operating System Concepts	2	3	3
SECOND SEMESTER					
CTS	120	Hardware/Software Support	2	3	3
NET	125	Introduction to Networks	1	4	3
NET	126	Routing Basics	1	4	3
NOS	130	Windows Single User	2	2	3
NOS	230	Windows Admin I	2	2	3
SUMMER SEMESTER					
NET	225	Routing and Switching I	1	4	3
NET	226	Routing and Switching II	1	4	3
THIRD SEMESTER					
CTS	115	Info Sys Business Concepts	3	0	3
ENG	114	Professional Research and Reporting	3	0	3
NOS	120	Linux/UNIX Single User	2	2	3
		Major Elective I	-	-	3
FOURTH SEMESTER					
CTS	288	Professional Practices in IT	2	2	3
		Humanities and Fine Arts Elective	-	-	3
		Social and Behavioral Sciences Elective	-	-	3
		Major Elective II	-	-	3
SUMMER SEMESTER					
NET	289	Networking Project	1	4	3
		Major Elective III	-	-	2

GRADUATION REQUIREMENT:

Credit Hours 65

IT - Network Management (A25590NM)

A.A.S. Degree (Day)

PROGRAM PLANNING GUIDE

General Education Electives					
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			Hours Per Week		
			Class	Lab	Credits

Humanities and Fine Arts Electives					
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(choose 3 credit hours from the following courses)

ART	111	Art Appreciation	3	0	3
HUM	115	Critical Thinking	3	0	3
MUS	110	Music Appreciation	3	0	3
PHI	240	Introduction to Ethics	3	0	3

Social and Behavioral Sciences Electives					
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(choose 3 credit hours 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

Required Major Electives					
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Major Electives (Select 1 option grouping below)					
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Option 1 - Microsoft Certified IT Professional Track					
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NOS	231	Windows Admin II	2	2	3
NOS	232	Windows Admin III	2	2	3

Option 2 - Cisco Certified Network Professional Track					
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NET	270	Building Scalable Networks	1	4	3
NET	272	Multi-Layer Networks	1	4	3
NET	273	Internetworking Support	1	4	3

Option 3 - Red Hat Certified Engineer Track					
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NOS	220	Linux/UNIX Admin I	2	2	3
NOS	221	Linux/UNIX Admin II	2	2	3
NOS	222	Linux/UNIX Admin III	2	2	3

Option 4 - Data Storage & Virtualization Track					
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CTI	140	Virtualization Concepts	1	4	3
CTI	240	Virtualization Admin I	1	4	3
CTI	241	Virtualization Admin II	1	4	3

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A.A.S. Degree (Day)

PROGRAM PLANNING GUIDE

Mixed Elective Options

Minimum of 8 credit hours from any of the above tracks, or any of the below courses

CCT	121	Computer Crime Investigations	3	2	4
CCT	240	Data Recovery Techniques	2	3	3
CTS	118	IS Professional Comm	2	0	2
CTS	135	Integrated Software Intro	2	4	4
CTS	155	Technical Support Functions	2	2	3
CTS	220	Advanced Hardware/Software Support	2	3	3
CTS	255	Advanced Technical Support Functions	2	2	3
CTS	272	Desktop Support: Apps	2	2	3
NET	115	Telecom for IT Professionals	2	2	3
NET	135	Data Center Networking	2	2	3
NET	175	Wireless Technology	2	2	3
NET	240	Network Design	3	0	3
NOS	125	Linux/UNIX Scripting	2	2	3
OMT	154	Customer Satisfaction	2	0	2
PMT	110	Intro to Project Management	3	0	3
SEC	110	Security Concepts	2	2	3
SEC	150	Secure Communications	2	2	3
SEC	160	Security Administration I	2	2	3
WBL		Work-Based Learning* (all numbers accepted)	-	30	2

* Work based education is an elective. Students must have approval from the Program Director and pre-register with the Work-Based Learning Office. The work may be done over any number of semesters, but the total elective credits must add up to 8 for electives 1, 2 and 3.

IT - Network Management (A25590NM)
A.A.S. Degree (Evening)
PROGRAM PLANNING GUIDE

Updated: Fall 2017

Realignment: Fall 2016 (Replaces A25340 - Networking Technology Degree)

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester

			Hours Per Week		Credits
			Class	Lab	
FIRST SEMESTER					
CTI	120	Network and Security Foundations	2	2	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
NOS	110	Operating System Concepts	2	3	3
SECOND SEMESTER					
CTI	110	Web, Programming and Database Foundations	2	2	3
NET	125	Introduction to Networks	1	4	3
NET	126	Routing Basics	1	4	3
SUMMER SEMESTER					
NET	225	Routing and Switching I	1	4	3
NET	226	Routing and Switching II	1	4	3
THIRD SEMESTER					
CTS	120	Hardware/Software Support	2	3	3
NOS	130	Windows Single User	2	2	3
NOS	230	Windows Admin I	2	2	3
FOURTH SEMESTER					
CTS	115	Info Sys Business Concepts	3	0	3
ENG	114	Professional Research and Reporting	3	0	3
		Major Elective I	-	-	3
SUMMER SEMESTER					
NOS	120	Linux/UNIX Single User	2	2	3
FIFTH SEMESTER					
		Humanities and Fine Arts Elective	-	-	3
		Social and Behavioral Sciences Elective	-	-	3
		Major Elective II	-	-	3
SIXTH SEMESTER					
		Major Elective III	-	-	2
CTS	288	Professional Practices in IT	2	2	3
SUMMER SEMESTER					
NET	289	Networking Project	1	4	3

GRADUATION REQUIREMENT:

Credit Hours 65

IT - Network Management (A25590NM)
A.A.S. Degree (Evening)
PROGRAM PLANNING GUIDE

General Education Electives					
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			Hours Per Week		
			Class	Lab	Credits

Humanities and Fine Arts Electives					
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(choose 3 credit hours from the following courses)

ART	111	Art Appreciation	3	0	3
HUM	115	Critical Thinking	3	0	3
MUS	110	Music Appreciation	3	0	3
PHI	240	Introduction to Ethics	3	0	3

Social and Behavioral Sciences Electives					
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(choose 3 credit hours 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

Required Major Electives					
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Major Electives (Select 1 option grouping below)					
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Option 1 - Microsoft Certified IT Professional Track					
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NOS	231	Windows Admin II	2	2	3
NOS	232	Windows Admin III	2	2	3

Option 2 - Cisco Certified Network Professional Track					
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NET	270	Building Scalable Networks	1	4	3
NET	272	Multi-Layer Networks	1	4	3
NET	273	Internetworking Support	1	4	3

Option 3 - Red Hat Certified Engineer Track					
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NOS	220	Linux/UNIX Admin I	2	2	3
NOS	221	Linux/UNIX Admin II	2	2	3
NOS	222	Linux/UNIX Admin III	2	2	3

Option 4 - Data Storage & Virtualization Track					
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CTI	140	Virtualization Concepts	1	4	3
CTI	240	Virtualization Admin I	1	4	3
CTI	241	Virtualization Admin II	1	4	3

IT - Network Management (A25590NM)
A.A.S. Degree (Evening)
PROGRAM PLANNING GUIDE

Mixed Elective Options

Minimum of 8 credit hours from any of the above tracks, or any of the below courses

CCT	121	Computer Crime Investigations	3	2	4
CCT	240	Data Recovery Techniques	2	3	3
CTS	118	IS Professional Comm	2	0	2
CTS	135	Integrated Software Intro	2	4	4
CTS	155	Technical Support Functions	2	2	3
CTS	220	Advanced Hardware/Software Support	2	3	3
CTS	255	Advanced Technical Support Functions	2	2	3
CTS	272	Desktop Support: Apps	2	2	3
NET	115	Telecom for IT Professionals	2	2	3
NET	135	Data Center Networking	2	2	3
NET	175	Wireless Technology	2	2	3
NET	240	Network Design	3	0	3
NOS	125	Linux/UNIX Scripting	2	2	3
OMT	154	Customer Satisfaction	2	0	2
PMT	110	Intro to Project Management	3	0	3
SEC	110	Security Concepts	2	2	3
SEC	150	Secure Communications	2	2	3
SEC	160	Security Administration I	2	2	3
WBL		Work-Based Learning* (all numbers accepted)	-	30	2

* Work based education is an elective. Students must have approval from the Program Director and pre-register with the Work-Based Learning Office. The work may be done over any number of semesters, but the total elective credits must add up to 8 for electives 1, 2 and 3.

IT - Network Management (A25590NM)
Diploma
Data Storage and Virtualization (D25590DV)
(Evening)
PROGRAM PLANNING GUIDE

Realignment: Fall 2016 (Replaces D25340A - Data Storage & Virtualization Diploma)

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester

			Hours Per Week		Credits
			Class	Lab	
FIRST SUMMER SEMESTER					
CTI	110	Web, Pgm, & Db Foundation	2	2	3
ENG	111	Writing and Inquiry	3	0	3
		Operating System Elective			3

FALL SEMESTER					
CTI	140	Virtualization Concepts	1	4	3
CTS	120	Hardware/Software Support	2	3	3
NET	125	Networking Basics	1	4	3
NET	126	Routing Basics	1	4	3
NOS	130	Windows Single User	2	2	3

SPRING SEMESTER					
CTI	240	Virtualization Admin I	1	4	3
CTS	115	Info Sys Business Concepts	3	0	3
ENG	114	Professional Research & Reporting	3	0	3
NOS	230	Windows Admin I	2	2	3

SECOND SUMMER SEMESTER					
CTI	241	Virtualization Admin II	1	4	3
WBL	113	Work-Based Learning I	-	30	3

GRADUATION REQUIREMENT:

Credit Hours 42

Operating System Electives					
(choose a minimum of 3 credit hours from the following courses)					
NOS	110	Operating System Concepts	2	3	3
CTI	130	OS and Device Foundation	4	4	6

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IT - Network Management (A25590NM)
Certificate
Cisco Network Associate (C25590CA)
(Day, Evening, and On-line)
PROGRAM PLANNING GUIDE

Realignment: Fall 2016 (Replaces C25340C - Cisco Certified Network Associate Certificate)

*** NOTICE: Some courses in this certificate may require prerequisite knowledge or course work.

Check WebAdvisor, or talk to your academic advisor for more details. ***

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester					
			Hours Per Week		Credits
			Class	Lab	
NET	125	Networking Basics	1	4	3
NET	126	Routing Basics	1	4	3
NET	225	Routing and Switching I	1	4	3
NET	226	Routing and Switching II	1	4	3

GRADUATION REQUIREMENT:

Credit Hours 12

IT - Network Management (A25590NM)
Certificate
Cisco Network Professional (C25590CP)
(Day and Evening)
PROGRAM PLANNING GUIDE

Realignment: Fall 2016 (Replaces C25340I - Cisco Certified Network Professional Certificate)

*** NOTICE: Some courses in this certificate may require prerequisite knowledge or course work.

Check WebAdvisor, or talk to your academic advisor for more details. ***

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester					
			Hours Per Week		Credits
			Class	Lab	
NET	270	Building Scalable Networks	1	4	3
NET	272	Multi-Layer Networks	1	4	3
NET	273	Internetworking Support	1	4	3
		Major Elective	-	-	3

GRADUATION REQUIREMENT:

Credit Hours 12

Major Electives					
(choose a minimum of 3 credit hours from the following courses)					
CTI	140	Virtualization Concepts	1	4	3
CTS	135	Integrated Software Intro	2	4	4
CTS	155	Technical Support Functions	2	2	3
CTS	240	Project Management	2	2	3
NET	115	Telecom for IT Professionals	2	2	3
NET	135	Data Center Networking	2	2	3
NET	175	Wireless Technology	2	2	3
NET	240	Network Design	3	0	3
NOS	220	Linux/UNIX Admin I	2	2	3
NOS	231	Windows Admin II	2	2	3
SEC	110	Security Concepts	2	2	3
SEC	150	Secure Communications	2	2	3
SEC	160	Security Administration I	2	2	3
WBL		Work Based Learning (all numbers acceptable)	0	30	3

* Work based education is an elective. Students must have approval from the Program Director and pre-register with the Work-Based Learning Office. The work may be done over any number of semesters, but the total elective credits must add up to 8 for electives 1, 2 and 3.

IT - Network Management (A25590NM)

Certificate

**Cisco Security (C25590CX)
(Day, Evening, and On-line)
PROGRAM PLANNING GUIDE**

Updated: Fall 2017

Realignment: Fall 2016 (Replaces D25270H - High Technology Criminal Investigations)

*** NOTICE: Some courses in this certificate may require prerequisite knowledge or course work.

Check WebAdvisor, or talk to your academic advisor for more details. ***

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester

			Hours Per Week		Credits
			Class	Lab	
SEC	110	Security Concepts	2	2	3
SEC	150	Secure Communications	2	2	3
NET	225	Routing and Switching I	1	4	3
NET	226	Routing and Switching II	1	4	3

GRADUATION REQUIREMENT:

Credit Hours 12

IT - Network Management (A25590NM)
Certificate
Linux Certified IT Professional (C25590LX)
(Day and Evening)
PROGRAM PLANNING GUIDE

Realignment: Fall 2016 (Replaces C25340K - Linux/Red Hat Administration Certificate)

*** NOTICE: Some courses in this certificate may require prerequisite knowledge or course work.
Check WebAdvisor, or talk to your academic advisor for more details. ***

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester

			Hours Per Week		Credits
			Class	Lab	
NOS	120	Linux/UNIX Single User	2	2	3
NOS	125	Linux/UNIX Scripting	2	2	3
NOS	220	Linux/UNIX Admin I	2	2	3
NOS	221	Linux/UNIX Admin II	2	2	3
NOS	222	Linux/UNIX Admin III	2	2	3

GRADUATION REQUIREMENT:

Credit Hours 15

IT - Network Management (A25590NM)
Certificate
Linux Security Specialist (C25590LS)
(Day, Evening, and On-line)
PROGRAM PLANNING GUIDE

Updated: Fall 2017

Realignment: Fall 2016 (Replaces C25270R - Red Hat Security Specialist)

*** NOTICE: Some courses in this certificate may require prerequisite knowledge or course work.
Check WebAdvisor, or talk to your academic advisor for more details. ***

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester

			Hours Per Week		Credits
			Class	Lab	
NOS	120	Linux/UNIX Single User	2	2	3
SEC	160	Security Administration I	2	2	3
NOS	220	Linux/UNIX Admin I	2	2	3
NOS	221	Linux/UNIX Admin II	2	2	3

GRADUATION REQUIREMENT:

Credit Hours 12

IT - Network Management (A25590NM)
Certificate
Global Windows Security Administrator (C25590WS)
(Day, Evening, and On-line)
PROGRAM PLANNING GUIDE

Updated: Fall 2017

Realignment: Fall 2016 (Replaces C25270W - Global Windows Security Administrator)

*** NOTICE: Some courses in this certificate may require prerequisite knowledge or course work.
Check WebAdvisor, or talk to your academic advisor for more details. ***

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester					
			Hours Per Week		Credits
			Class	Lab	
SEC	160	Security Administration I	2	2	3
NOS	230	Windows Admin I	2	2	3
NOS	231	Windows Admin II	2	2	3
NOS	232	Windows Admin III	2	2	3

GRADUATION REQUIREMENT:

Credit Hours 12

IT - Network Management (A25590NM)
Certificate
Microsoft Certified IT Professional (C25590MS)
(Day and Evening)
PROGRAM PLANNING GUIDE

Realignment: Fall 2016 (Replaces C25340J - Microsoft Certified IT Professional Certificate)

*** NOTICE: Some courses in this certificate may require prerequisite knowledge or course work.
Check WebAdvisor, or talk to your academic advisor for more details. ***

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

Curriculum By Semester

			Hours Per Week		
			Class	Lab	Credits
NOS	130	Windows Single User	2	2	3
NOS	230	Windows Admin I	2	2	3
NOS	231	Windows Admin II	2	2	3
NOS	232	Windows Admin III	2	2	3

GRADUATION REQUIREMENT:

Credit Hours 12