



## Business, Management, Marketing & Technology Pathway

### Networking Specialist Certificate

Networking involves the hardware, software and communication channels necessary to allow computers to talk to each other. Students will study various components of computer networking. After each Novell class, students can apply through Novell to take Novell certification testing in the specific topic area. Students who pass all seven exams are recognized as Certified Novell Engineers (CNE) or Microsoft Certified Systems Engineers (MCSE). Students who can complete ITE 221- NetWare Administration can sit for the appropriate exam and earn certification as a Certified Novell Administrator (CNA). Many organizations now use computer networks and need networking specialists to maintain their networks. Several other occupations may utilize networking skills, such as office assistants, accountants or managers.

Minimum credits: 35  
Minimum cumulative GPA: 2.0  
Minimum JCC credits: 12  
MACRAO agreement: No

#### INFORMATION TECHNOLOGY EDUCATION REQUIRED COURSES (12 credits)

MTH 131	Intermediate Algebra or higher level	. . . . . 3
ENG 131	Writing Experience	. . . . . 3
ENG 232	Technical & Business Writing	. . . . . 3
ITE 101*	Information Technology Education	. . . . . 3

\* ITE 101 is a prerequisite for ITE 261; students with one year of information technology work experience may be eligible to substitute another elective for ITE 101.

#### CHOOSE EITHER OPTION 1 OR OPTION 2

##### OPTION 1 - INFORMATION TECHNOLOGY CORE

###### MICROSOFT OPTION (25 credits)

ITE 220	Networking Technologies (565)	. . . . . 3
ITE 261	Windows 2000 Networking 1..	. . . . . 3
ITE 262	Windows 2000 Networking 2...	. . . . . 4
ITE 263	Windows 2000 Networking 3...	. . . . . 3
ITE 264	Windows 2000 Networking 4...	. . . . . 3
ITE 265	Designing a MS Windows 2000 Directory Services Infrastructure	. . . . . 3
ITE 266	Designing a MS Windows 2000 Networking Services Infrastructure	. . . . . 3
ITE 267	Designing a Secure Microsoft Windows 2000 Network	. . . . . 3

##### OPTION 2 - INFORMATION TECHNOLOGY CORE

###### NOVELL OPTION (15 credits)

ITE 220	Networking Technologies (565)	. . . . . 3
ITE 221	NetWare Administration (560)	. . . . . 3
ITE 222	NetWare Adv. Administration (570)	. . . . . 3
ITE 224	NDS Design and Implementation (575)	. . . . 2

ITE 225	NetWare Service and Support (580)	. . . . . 3
ITE 227	TCPIP For Networking Professionals	. . . . . 1

###### ITE ELECTIVES (5 Credits)

ITE 047	UNIX	. . . . . 1
ITE 050	Internet	. . . . . 1
ITE 067	MS-DOS	. . . . . 1
ITE 108	Business Programming: Logic & Theory	. . . . . 3
ITE 117	BASIC Programming	. . . . . 3
ITE 134	Visual BASIC Programming	. . . . . 3
ITE 150	JAVA Programming	. . . . . 4
ITE 151	Adv. JAVA Programming	. . . . . 3
ITE 182	Programming in C++	. . . . . 3
ITE 183	Visual C++	. . . . . 3

###### BUSINESS ELECTIVES (3 Credits)

ACC 231	Principles of Accounting	. . . . . 4
BUS 101	Marketing	. . . . . 3
BUS 131	Introduction to Business	. . . . . 3

#### Sample Curriculum For Networking Specialist Certificate – Microsoft Option

##### Semester 1

ITE 101, ITE 220, ITE 261, ITE 262, ENG 131

##### Semester 2

ITE 263, ITE 264, ENG 232, MTH 131, Electives (2-3 credits)

##### Semester 3

ITE 265, ITE 266, ITE 267, Electives (5-6 credits)

#### Sample Curriculum For Networking Specialist Networking Specialist Certificate – Novell Option

##### Semester 1

ITE 101, ITE 220, ITE 221, ENG 131, Electives (3-4 credits)

##### Semester 2

ITE 222, ITE 224, ITE 225, ITE 227, ENG 232, MTH 131

##### Semester 3

Electives (4-5 credits)