

## Networking Specialist Certificate



**Business, Management, Marketing &  
Technology Career Pathway**

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 RELATED REQUIREMENTS — (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 — (15 credits)

ITE 239 Network+ Networking Fundamental Component	3
ITE 261 Windows 2000 Networking 1	3
ITE 262 Windows 2000 Networking 2	3
ITE 263 Windows 2000 Networking 3	3
ITE 264 Windows 2000 Networking 4	3

##### PLUS CHOOSE FROM THE FOLLOWING — (9 credits)

ITE 254 Designing SQL Server	3
ITE 255 Implementing SQL Server	3
ITE 265 Designing MS Windows 2000 Directory Services Infrastructure	3

ITE 266 Designing MS Windows 2000 Networking Services Infrastructure	3
ITE 267 Designing a Secure Microsoft Windows 2000 Network	3
ITE 268 Implementing and Administrating Exchange Server	3

#### OPTION 2 - INFORMATION TECHNOLOGY CORE

##### NOVELL OPTION — (17 credits)

ITE 221 Foundations of Novell Networking	3
ITE 222 Novell Network Management Netware 6	3
ITE 224 NDS Design and Implementation	2
ITE 232 Novell ZENworks for Desktops	3
ITE 239 Network+ Networking Fundamentals Component	3
ITE 246 Advanced Novell Network Management	3

##### 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 Advanced 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