

## Network Specialist

**Objective:** The Network Specialist program is designed to give students the ability to configure and troubleshoot computer hardware and administer and configure Novell and Microsoft networks. In addition, the program is designed to give the students the ability to design Windows infrastructure and active directory, Cisco router configuration, wireless networks, and network security. Web authoring at the HTML level is introduced. Students are introduced to routers, Microsoft Office, and ethics in technology and society. Graduates are prepared to assume positions as entry-level network engineers or systems engineers.

Empire College is a Microsoft IT Academy and MSDN AA (Microsoft Developers Network Academic Alliance) member and uses a teaching program prescribed by Microsoft to prepare graduates for certification as Microsoft Certified Professionals (MCP) at the product level.

The student is prepared for ten certifications:

- CompTIA A+ Technician
- CompTIA Network+
- CompTIA Linux+
- CompTIA Security+

Microsoft Certification at the product level (MCP) in five areas:

Windows XP Professional; Windows 2003 Server; Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Network Infrastructure; Planning, Implementation, and Maintaining Windows 2003 Active Directory Infrastructure; Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure

Microsoft Certified Systems Administrator (MCSA): With completion of the CompTIA A+ Technician, Network+, and three MCP certifications, the student will have achieved the highly regarded MCSA certification.

Certifications are not required to be employed in the career field or to graduate from the program, but they are highly recommended. Exams may be taken at the on-campus Prometric/VUE Testing Center. Exam fees vary, ranging from \$60 to \$225.

Note: All units in this program are transferable to the Specialized Associate Degree – Information Technology (Microsoft Concentration) program.

**Expected Educational Outcomes:** Upon completing the Network Specialist program, students will have demonstrated:

1. The ability to provide customer and user support for computer systems and networking products including Microsoft Windows, Novell Netware, Linux cross platform connectivity, and numerous software products.
2. An understanding of Microsoft Windows operating systems including setup, configuration, and file and user management, as well as router configuration.
3. The critical thinking skills required to analyze network connectivity problems and make necessary judgments to troubleshoot hardware and software.
4. The ability to interact with users/customers in a professional, businesslike manner.
5. Proficiency with web authoring and Microsoft Word, Excel, and Access.

**Diploma** awarded upon successful completion of all graduation requirements.

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### Program Outline: Requirements for Graduation

Class No.	Class Title	Hours	Qtr.		Class No.	Class Title	Hours	Qtr.	
			Units					Units	
CM166A	Beginning Excel	25	1.0		CS230	Designing a Microsoft Windows 2003 Server			
CM168A	Beginning Access	25	1.0			Active Directory and Infrastructure	75	5.5	
CM190A	Web Authoring I	25	1.0		CS242	Windows XP	75	5.5	
CM190B	Web Authoring II	25	1.0		CS245	Wireless Networking	25	1.0	
CM192A	Microsoft Office Professional: An Overview of Word and Excel	25	1.0		CS250A	Introduction to Routers I	25	2.5	
CS100	Introduction to Computer Hardware	75	6.0		CS260	Linux Plus with Novell Administration	75	6.0	
CS110A	Command Line Scripting	25	1.0		CS270A	Technical Drawing with Visio	25	1.0	
CS120	Computer Configuration and Troubleshooting	75	6.0		CS325	Security Plus	75	5.5	
CS140	Advanced Computer Set-up and Communications	75	6.0		EN303A	Management Communications I	25	2.5	
CS160A	Network Plus I	25	2.5		EN303B	Management Communications II	25	2.5	
CS160B	Network Plus II	25	2.5		GB101	Career Transitions	25	2.5	
CS175A	Wiring Hardware	25	1.5		GB200A	Human Relations I	25	2.5	
CS191	Certification Preparation	25	1.5		GB200B	Human Relations II	25	2.5	
CS205	Windows 2003 Server	75	5.5		MA101	Introduction to Algebra	25	2.5	
CS212	Implementing, Managing, and Maintaining a Microsoft Windows 2003 Infrastructure	75	5.5		PH101A	Ethics in Technology and Society	25	2.5	
CS218	Planning and Maintaining Windows 2003 Active Directory	75	5.5			Total:	1250	93.0	
						Total Weeks/Quarters:	50/5		

**Keyboarding Speed Requirement:** 25 NWPM