# Network Specialist

**Objective:** The Network Specialist program is designed to give students the ability to configure and troubleshoot computer hardware and administer and configure Microsoft and Linux networks. In addition, the program is designed to give the students the ability to design Network Infrastructure and Active Directory, as well as configure Cisco routers. Web authoring with HTML and Adobe Creative Suite, along with ethics in technology and society, are introduced. Graduates are prepared to assume positions as entry-level network engineers or systems engineers.

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

The student is prepared for eight certifications:

CompTIA A+ Technician

CompTIA Network+

CompTIA Security+

Microsoft Certification at the product level (MCP-Microsoft Certified Professional) in four areas:

Windows 7 Professional, Installing and Configuring Windows Server 2012, Administering Windows Server 2012, Configuring Advanced Windows Server 2012 Services

MCSA (Microsoft Certified Solutions Associate) Windows Server 2012: With completion of the three MCP certifications (Installing and Configuring Windows Server 2012, Administering Windows Server 2012, Configuring Advanced Windows Server 2012 Services), the student will have achieved the highly regarded MCSA: Windows Server 2012 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, 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 in web authoring.

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

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Empire College
Business – Law – Technology – Medical

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## Program Outline:  Requirements for Graduation

| Class No. | Class Title | Hours | Qtr. Units |
|---|---|---|---|
| CMN190A | Web Authoring I | 24 | 1.0 |
| CMN190B | Web Authoring II | 24 | 1.0 |
| CMN190C | Web Authoring III | 24 | 1.0 |
| CMN210A | Photoshop | 24 | 1.0 |
| CSN100 | Introduction to Computer Hardware | 72 | 5.0 |
| CSN111A | Powershell | 24 | 1.0 |
| CSN120 | Computer Configuration and Troubleshooting | 72 | 5.0 |
| CSN140 | Advanced Computer Set-up and Communications | 72 | 5.0 |
| CSN160 | Network Plus | 72 | 5.0 |
| CSN175A | Wiring Hardware | 24 | 2.0 |
| CSN183 | Green Information Technology Strategies | 24 | 1.0 |
| CSN191A | Certification Preparation I | 24 | 1.0 |
| CSN191B | Certification Preparation II | 24 | 1.0 |
| CSN205 | Windows Server | 72 | 5.0 |
| CSN212 | Windows Server Network Infrastructure | 72 | 5.0 |
| CSN218 | Windows Server Active Directory | 72 | 5.0 |
| CSN231 | Enterprise Administrator | 72 | 5.0 |
| CSN242 | Windows Operating System Configuration | 72 | 5.0 |
| CSN250A | Introduction to Routers I | 24 | 2.0 |
| CSN260 | Linux Plus | 72 | 5.0 |
| CSN270A | Technical Drawing with Visio | 24 | 1.0 |
| CSN325 | Security Plus | 72 | 5.0 |
| ENN303A | Management Communications I | 24 | 2.0 |
| GBN101 | Career Transitions | 24 | 2.0 |
| GBN200A | Human Relations I | 24 | 2.0 |
| GBN200B | Human Relations II | 24 | 2.0 |
| MAN101 | Introduction to Algebra | 24 | 2.0 |
| PHN101A | Ethics in Technology and Society | <u>24</u> | <u>2.0</u> |
| | Total: | 1200 | 80.0 |
| | Total Weeks/Quarters: | 60/5 | |

**Keyboarding Speed Graduation Requirement:**
25 NWPM