

## NETWORKING TECHNOLOGIES COURSE SEQUENCE

|            | <u>1st Quarter</u><br>Fundamentals of Networking                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>2nd Quarter</u><br>Local Area Networks                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>3<sup>rd</sup> Quarter</u><br>Wide Area Networks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>4<sup>th</sup> Quarter</u><br>NW Design & Implementation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| First Year | <p><b>NWT351 – 45 hours</b><br/>Networking Basics<br/>Principals of Networking<br/>Evolution of Networks<br/>Networking Careers<br/>The Computer System</p> <p><b>NWT352 – 45 hours</b><br/>Network Architecture and<br/>Network Topology<br/>Networking Components<br/>Types of Networks<br/>Network Architecture<br/>Network Topologies</p> <p><b>NWT353 – 30 hours</b><br/>Modes of Transmission<br/>How Network Traffic Gets from<br/>Here to There<br/>Network Models<br/>Protocols</p> | <p><b>NWT361 – 45 hours</b><br/>Network Hardware, Media<br/>and Cabling Systems<br/>Network Connectivity Devices<br/>Network Media<br/>Network Interface Cards<br/>Wireless Networking</p> <p><b>NWT362 – 45 hours</b><br/>Network Models and<br/>Protocols<br/>Common LAN Models<br/>Other LAN Models TCP/IP<br/>Other Models and Protocols</p> <p><b>NWT363 – 30 hours</b><br/>Networking Operating Systems and<br/>Software<br/>Common Operating Systems<br/>Graphical User Interface<br/>Network OS Software</p> | <p><b>NWT371 – 30 hours</b><br/>Local Area Networks to<br/>Wide Area Networks<br/>Communications<br/>Data-Encoding Basics<br/>Communications Carriers</p> <p><b>NWT372 – 30 hours</b><br/>WAN and Emerging Technologies<br/>How a WAN Works<br/>Sending Data Across a WAN<br/>Developing Technologies</p> <p><b>NWT373 – 30 hours</b><br/>The Internet and the Web<br/>Structure of the Internet<br/>Internet and Web Communities<br/>Internet Connections and Addressing<br/>Internet and Web Services</p> <p><b>NWT374 – 30 hours</b><br/>Installing and Upgrading NW<br/>Installing Operating Systems<br/>Implementation<br/>System and NW Upgrades<br/>System Testing and Documentation</p> | <p><b>NWT381 – 30 hours</b><br/>Network Planning and Design<br/>Network Design<br/>Selecting Hardware<br/>Server &amp; Network Performance</p> <p><b>NWT382 – 30 hours</b><br/>Network Maintenance and Security<br/>The Basics of Managing<br/>Network Monitoring and Maintenance<br/>Basic Scripting<br/>Ensuring Network Security</p> <p><b>NWT384 – 15 hours</b><br/>Troubleshooting Networks<br/>Troubleshooting Basics<br/>Finding and Repairing Problems<br/>Troubleshooting Tools</p> <p><b>NWT383 – 30 hours</b><br/>The World Wide Web<br/>The Internet &amp; the World Wide Web<br/>Business and the Web<br/>Languages of the Web</p> <p><b>NWT385 – 15 hours</b><br/><b>Math for Computer Networking</b><br/>Number conversions<br/>Solving algebraic formulas<br/>Basic geometry<br/>Basic logic statements<br/>Powers<br/>Percentages and weighted averages</p> |
|            | <b>TOTAL 120 Hours</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>TOTAL 120 Hours</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>TOTAL 120 Hours</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>TOTAL 120 Hours</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |