# Network Systems II Course No. 10147 Credit: 1.0

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| **Student name:** |  | **Graduation Date:** |  |

Pathways and CIP Codes:Network Systems (11.0901)

Course Description: **Application Level:** a course designed for students who have chosen to pursue a Network Systems program of study to emphasize more advanced conceptual and practical skills necessary to identify, install, and manage relevant hardware and software in network systems. This should be a dual enrollment course with the student completing post-secondary credit hours in the Computer Support Specialist certification track (KBOR). Students should be completing preparatory competencies toward successful completion of the CompTIA Network+ or CompTIA A+ exams and attainment of certification. **\*\*Prerequisites: Foundations of Information Technology and Network Systems I or demonstration of all competencies therein.**

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Advance study of Network Systems toward CompTIA Network+ Certification.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Design and implement functional networks. |  |
| 1.2 | Configure, manage, and maintain essential network devices. |  |
| 1.3 | Use devices such as switches and routers to segment network traffic and create resilient networks. |  |
| 1.4 | Identify benefits and drawbacks of existing network configurations. |  |
| 1.5 | Implement network security, standards and protocols. |  |
| 1.6 | Troubleshoot network problems. |  |
| 1.7 | Support the creation of virtualized networks. |  |

## Benchmark 2: Advance study of Network Systems and/or other information technology programs toward CompTIA A+ certification.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Configure, install and upgrade operating systems, including: Windows, Apple OS X, Linux, iOS, Android and Windows Mobile. |  |
| 2.2 | Install and image virtual machines. |  |
| 2.3 | Set up and troubleshoot peripheral devices. |  |
| 2.4 | Assemble and disassemble computing hardware. |  |
| 2.5 | Set up and support basic home and small office networks. |  |
| 2.6 | Implement cybersecurity controls appropriate to helpdesk and technical support roles. |  |
| 2.7 | Troubleshoot and support end-user access to applications and data. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

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