

Grand Island Public Schools
Senior High Level Instructional Technology Cisco 1, 2, 3, 4 Course Standards to be Mastered

As a result of their participation in the Senior High Instructional Technology Cisco Course, students will:

Strand 1: Basic Operations and Concepts

- 1.1 *General Computer Knowledge (Cisco 3,4)*
 - 1.1.11 Analyze network performance using ping, telnet, and traceroute, and diagnose possible problems

- 1.4 *Networking (Cisco 3,4)*
 - 1.4.3 Identify networking equipment (e.g., routers, switches, hubs, modems)
 - 1.4.4 Install, configure, and operate simple networks (e.g., LANS, VLANS, WANS, Wi-Fi)
 - 1.4.5 Demonstrate appropriate care, configuration, and use of networking equipment (e.g., routers, switches, hubs, modems)

- 1.5 *Computer Programming Languages (Cisco 3,4)*
 - 1.5.1 Demonstrate competency in computer programming (e.g., C++, CISCO)

Strand 2: Social, Ethical, and Human Issues

Strand 3: Technology Productivity Tools

- 3.9 *Peripheral Devices*
 - 3.9.1 Use hand-held digital device for data collection (e.g., science probes for temperature, light, sound collection)
 - 3.9.2 Use hand-held digital device for data collection individually or in small groups (e.g., science probes for temperature, light, sound collection)

Strand 4: Communications/Collaboration

- 4.1 *Email*
 - 4.1.2 Access account, retrieve, compose, send, and reply to messages using individual accounts
 - 4.1.3 Manage E-mail messages (e.g., deleting, saving and organizing)
 - 4.1.4 Use advanced email features (e.g., postpone, edit, forward, carbon copy, multiple recipients, attachments)
 - 4.1.5 Print message
 - 4.1.6 Create an address book

Strand 5: Research

- 5.1 *Electronic Resources*
 - 5.1.3 Demonstrate advanced online search strategies
 - 5.1.5 Transfer relevant information to note format

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Strand 6: Problem Solving and Decision-Making

- 6.3 *Application of Research Results*
- 6.3.2 Interpret and summarize information
- 6.3.3 Draw conclusion utilizing data
- 6.3.4 Develop product indicating results of research (e.g., simulation, report, presentation, model)

These standards will be expected to be mastered by students at a "successful" level.

Mastery occurs when students can demonstrate the standard at an acceptable performance standard at the time measured.