

# CIS - Networking Fundamentals

## CIS - Networking Fundamentals Certificate of Achievement

Networking fundamentals explains computer networking basics in terms that can be easily understood, using concepts common to everyday, no-computing experience. A brief introduction to networking history provides context, explaining how networks have become so important to businesses and individuals. The certificate emphasizes networking fundamentals, explaining the software and hardware that makes networking possible. The certificate stresses understanding how and why networks work, rather than focusing on memorization of terms or numbers. Upon completion of the certificate, students will perform basic computer networks tasks, such as DSL connectivity or configuring connections to an Internet service provider. This certificate gives student the foundation needed to begin training for the CCNA (Cisco Certified Network Administrator) Certification or employment in a computer networking career.

### Program Student Learning Outcomes

Upon completion of the program, student will be able to:

- Take the CompTIA Network+ certification exam.
- Configure networking on systems and workstations.
- Understand and setup TCP/IP networks and subnets.
- Maintain physical and wireless network connections and equipment.

Course #	Title	Units
<b>Required Core Courses</b>		
CIS-005A.....	Information and Communication Technology Essentials.....	
CIS-005B.....	Computer Network Fundamentals.....	
CIS-005C.....	Routing and Switching Essentials.....	
CIS-005D.....	System and Network Administration.....	
CIS-042.....	System Analysis and Design.....	
WE-015XX.....	General or Occupational Work Experience.....	1-3
or CIS -015XX..	Occupational Work Experience.....	1 - 3
<b>Total .....</b>		<b>17-19</b>

*This is a **recommended sequence** of courses for timely completion of this program. Please see your counselor to formalize your personalized educational plan or for alternative planning.*

SEMESTER 1		SEMESTER 2	
CIS-005A.....		CIS-005C.....	
CIS-005B.....		CIS-005D.....	
CIS-042.....		WE-015XX or CIS-015XX.....	1
<b>10</b>		<b>7</b>	

**For Gainful Employment information please visit:**

<https://www.westhillscollge.com/lemoore/degrees-and-certificates/gainful-employment/cis-networking-fundamentals-cert.php>