



Syllabus



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CIT-262: Network Communications

Course Description

This course will provide a basic understanding of data communication and network technologies. It will also help students to further gain practical experience on network problem identification, troubleshooting, and general support of networks.

Credit Hours: 3

Prerequisite Courses: None

Prerequisite Skills and Knowledge: None

Course Outcomes

Upon completion of this course, you should be able to:

1. Gain an overview on networking technology and its history.
2. Study future trends in computer information technology.
3. Prepare for key network certification tests and exams.
4. Apply a working knowledge of the OSI model and the functions of its seven layers.
5. Know the main functions of network hardware and exactly where they belong in an OSI layer.
6. State LAN concepts and know LAN types and their protocols.
7. Describe standards of Ethernet and explain how an Ethernet network gets set up in an office.
8. Describe TCP/IP, routing, subnet technology and new IPv6 standard.
9. Describe network technologies, DNS, DHCP, Firewall, VPN and VLAN.
10. Design and implement wireless local area networks with proper devices and equipment.
11. Design, set up, maintain and troubleshoot networks.

Course Textbook

Meyers, M. (2018). *Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks, Fifth Edition Edition (Exam N10-007), 5th Edition.*

Grading Scale

Grade	Quality Points Per Credit	Percentage	Score
A	4.0	95%–100%	950–1000
A-	3.7	92%–94.9%	920–949
B+	3.3	89%–91.9%	890–919
B	3.0	85%–88.9%	850–889
B-	2.7	82%–84.9%	820–849
C+	2.3	79%–81.9%	790–819
C	2.0	75%–78.9%	750–789
C-	1.7	72%–74.9%	720–749
D+	1.3	69%–71.9%	690–719
D	1.0	65%–68.9%	650–689
F	0.0	0%–64.9%	0–649

Grading Policies

Your grading policy for your course is dependent on your school and program. Your grading policies can be found in the [IWU Catalog](#).

Letter Grade Equivalencies

* A grade of C- or below will require the course to be repeated.

Grade	Description of Work

A	Clearly stands out as excellent performance. Has unusually sharp insights into material and initiates thoughtful questions. Sees many sides of an issue. Articulates well and writes logically and clearly. Integrates ideas previously learned from this and other disciplines. Anticipates next steps in progression of ideas. Example "A" work should be of such nature that it could be put on reserve for all cohort members to review and emulate. The "A" cohort member is, in fact, an example for others to follow.
B	Demonstrates a solid comprehension of the subject matter and always accomplishes all course requirements. Serves as an active participant and listener. Communicates orally and in writing at an acceptable level for a graduate student. Work shows intuition and creativity. Example "B" work indicates good quality of performance and is given in recognition for solid work; a "B" should be considered a good grade and awarded to those who submit assignments of quality less than the exemplary work described above.
C	Quality and quantity of work in and out of class is average. Has marginal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at least minimally.

Course Assignments

Workshop One Outline

Title	Due Dates	Time	Points
1.1 Quiz: Readings	Due by the end of the workshop	12.5 hours	50
1.2 Discussion: OSI	Post your initial response by day four of the workshop, and your two responses by the end of the workshop	2 hours	20
1.3 Assignment: Lab	Due by the end of the workshop	3 hours	70
1.4 Assignment: Final Project	Due by the end of the workshop	3 hours	40
Totals		20.5 hours*	180

*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary

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Workshop Two Outline

Title	Due Dates	Time	Points
2.1 Quiz: Readings	Due by the end of the workshop	12.5 hours	50
2.2 Discussion: Ethernet	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop	2 hours	20
2.3 Assignment: Lab	Due by the end of the workshop	3 hours	80
2.4 Assignment: Final Project-References	Due by the end of the workshop	2 hours	40
Totals		19.5 hours*	190

*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

Workshop Three Outline

Title	Due Dates	Time	Points
3.1 Quiz: Readings	Due by the end of the workshop	12.5 hours	50
3.2 Discussion: Network Protocol	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop	2 hours	20
3.3 Assignment: Lab	Due by the end of the workshop	3 hours	70
3.4 Assignment: Final Project - Outline	Due by the end of the workshop	3 hours	40

Totals	20.5 hours*	180
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*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

Workshop Four Outline

Title	Due Dates	Time	Points
4.1 Quiz: Readings	Due by the end of the workshop	12.5 hours	75
4.2 Discussion: TCP/IP	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop	2 hours	20
4.3 Assignment: Lab	Due by the end of the workshop	3 hours	60
4.4 Assignment: Final Project-Diagram	Due by the end of the workshop	3 hours	40
Totals		20.5 hours*	195

*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

Workshop Five Outline

Title	Due Dates	Time	Points
5.1 Quiz: Readings	Due by the end of the workshop	12.5 hours	50
5.2 Discussion: Wireless Network	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop	2 hours	20
5.3 Assignment: Lab	Due by the end of the workshop	3 hours	55

5.4 Assignment: Final Project - Paper	Due by the end of the workshop	4 hours	130
End of Course Survey	Due by the end of the workshop	0	10 Points Extra Credit
Totals		21.5 hours*	255

*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

Course Development Resources

Bohl, M. & Rynn, M. (2001). *Tools for structured design* (5th ed.). Upper Saddle River, NJ: Prentice-Hall.

Gaddis, T. (2008). *Starting out with programming logic and design*. Indianapolis, IN: Addison Wesley.

Lamey, R. (2002). *Logical problem solving*. Upper Saddle River, NJ: Prentice-Hall.

Robinson, D. (2000). *Fundamentals of structured program design*. Upper Saddle River, NJ: Prentice

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Activity Details

Completion Summary



Task: View this topic