

Chandler-Gilbert Community College – Cisco Networking Academy

CNT140 – Cisco Networking Fundamentals

Semester: Spring 2003 **Section:** 51

Day: Tues **Time:** 6:10 - 9:50 **Room:** B124

Instructor: Ryan McCaigue **Phone:** 480-213-7240 (C) 480-814-9353 (H)

Email: ryan@mccaigue.com AIM rmccaigue@mac.com URL: www.mccaigue.com

Text: First-Year Companion Guide, 2nd Edition (CG) (ISBN 1-58713-025-4)
Engineering Workbook and Journal, Volume I (ISBN 1-58713-026-2) (opt)

Web Sites: On campus: cg-alpha1.cgc.maricopa.edu (use CGCC login)

 Off campus: cg-alpha1.cgc.maricopa.edu (use CGCC login)
 cisco.netacad.net (use Cisco login)

Week	Date	Lesson/Subject	Homework
1	1/21	<ul style="list-style-type: none"> • Intros & Orientation • Review Syllabus & Schedule • Review Texts & Materials • Procedures for web-based course access • Labs/Exercises Overview <p>Lecture: Computer Basics Online: Chapter 1</p> <p><i>Lab Exercise:</i></p> <ul style="list-style-type: none"> • 1.1 Binary Numbering 	<ul style="list-style-type: none"> • Online CH1 • Study for Quiz 1 • CG: CH1 • Review Questions <ul style="list-style-type: none"> • Online CH 2 • Practice Quiz 2 • CG: CH 2 • Review Questions
2	1/28	<p>Quiz 1 at start of class (Chapter 1)</p> <p>Lecture: The OSI Model Online: Chapter 2</p> <p><i>Lab Exercise:</i></p> <ul style="list-style-type: none"> • 2.1 OSI Model Layers 	<ul style="list-style-type: none"> • Study for Quiz 2 <ul style="list-style-type: none"> • Online CH 3 • Practice Quiz 3 • CG: CH 3 • Review Questions

3	2/4	<p>Quiz 2 at start of class (Chapter 2)</p> <p>Lecture: Local Area Networks Online: Chapter 3</p> <p><i>Lab Exercises: none</i></p>	<ul style="list-style-type: none"> • Study for Quiz 3 • Online CH 4 • Practice Quiz 4 • CG: CH 4 • Review Questions
4	2/11	<p>Quiz 3 at start of class (Chapter 3)</p> <p>Lecture: Electronics and Signals Online: Chapter 4</p> <p><i>Lab Exercises:</i></p> <ul style="list-style-type: none"> • 4.1: Using a Multimeter • 4.2: Resistance Measurements • 4.3: Voltage Measurements 	<ul style="list-style-type: none"> • Study for Quiz 4 • Online CH 5 • Practice Quiz 5 • CG: CH 5 • Review Questions
5	2/18	<p>Quiz 4 at start of class (Chapter 4)</p> <p>Lecture: Media Connections & Collisions Online: Chapter 5</p> <p><i>Lab Exercise:</i></p> <ul style="list-style-type: none"> • 5.1: Cable Testing: Basic, Wire Map & Length 	<ul style="list-style-type: none"> • Study for Quiz 5 • Online CH 6 • Practice Quiz 6 • CG: CH 6 • Review Questions
6	2/25	<p>Quiz 5 at start of class (Chapter 5)</p> <p>Lecture: Layer 2 Concepts Online: Chapter 6</p> <p><i>Lab Exercises:</i></p> <ul style="list-style-type: none"> • 5.2: Straight Through Cable • 5.3: Rollover Cable • 5.4: Crossover Cable 	<ul style="list-style-type: none"> • Study for Quiz 6 • Online CH 7 • Practice Quiz 7 • CG: CH 7 • Review Questions

7	3/4	<p>Quiz 6 at start of class (Chapter 6)</p> <p>Lecture: Layer 2 Technologies Online: Chapter 7</p> <p><i>Lab Exercises</i></p> <ul style="list-style-type: none"> • 7.1: Network Discovery/Inspector 	<ul style="list-style-type: none"> • Study for Quiz 7 • Online CH 8 • Practice Quiz 8 • CG: CH 8 • Review Questions
8	3/11	<p>Quiz 7 at start of class (Chapter 7)</p> <p>Lecture: Design and Documentation Online: Chapter 8</p> <p><i>Lab Exercises: none</i></p>	<ul style="list-style-type: none"> • Study for Quiz 8 • Online CH 9 • Practice Quiz 9 • CG: CH 9 • Review Questions
	3/18	<p>Spring Break: No class</p>	
9	3/25	<p>Quiz 8 at start of class (Chapter 8)</p> <p>Lecture: Structured Cabling Project Online: Chapter 9</p> <p><i>Lab Exercises:</i></p> <ul style="list-style-type: none"> • 9.1: RJ-45 Jack Install (Panduit) 	<ul style="list-style-type: none"> • Study for Quiz 9 • Online CH 10 • Practice Quiz 10 • CG: CH 10 • Review Questions
10	4/1	<p>Quiz 9 at start of class (Chapter 9)</p> <p>Discuss Group Project</p> <p>Lecture: Layer 3 Routing & Addressing Online: Chapter 10</p> <p><i>Lab Exercises:</i></p> <ul style="list-style-type: none"> • 10.1: IP Addressing • 10.2: Subnet Basics • 10.3: Subnet Mask Class B • 10.4: Subnet Mask Class C 	<ul style="list-style-type: none"> • Study for Quiz 10 • Online CH 11 • Practice Quiz 11 • CG: CH 11 • Review Questions • Group Project

11	4/8	Continue with Chapter 10 Lecture & Labs	<ul style="list-style-type: none"> • Same as week 10
12	4/15	<p>Quiz 10 at start of class (Chapter 10)</p> <p>Lecture: Layer 3 Routing Protocols Online: Chapter 11</p> <p><i>Lab Exercises: none</i></p>	<ul style="list-style-type: none"> • Study for Quiz 11 • Online CH 12, 13,14 • Practice Quizzes • CG: CH 12, 13, 14 • Review Questions • Group Projects
13	4/22	<p>Quiz 11 at start of class (Chapter 11)</p> <p>Terminology Exercise distributed</p> <p>Lecture: Layer 4 Transport Layer Layer 5 Session Layer Layer 6 Presentation Layer</p> <p>Online: Chapter 12, 13, 14</p> <p><i>Lab Exercises:</i></p> <ul style="list-style-type: none"> • <i>Make up missed labs</i> 	<ul style="list-style-type: none"> • Study for Quiz 12-14 • Online CH 15 • Practice Quiz 15 • CG: CH 15 • Review Questions • Group Projects • Terminology Exer.
14	4/29	<p>Quiz 12-14 at start of class (Chapter 12, 13, 14)</p> <p>Lecture: Layer 7 Application Layer Online: Chapter 15</p> <p>Quiz 15 at start of class (Chapter 15)</p> <p>Terminology Exercise due Group Presentations (with handouts)</p>	<ul style="list-style-type: none"> • Study for Quiz 15 • Terminology Exer. • Group Projects • Complete lab exercises
15	5/6	<p>Group Presentations (with handouts)</p> <p>Lecture: Review for Final Online: Chapters 1 – 15</p>	<ul style="list-style-type: none"> • Study for Final

16	5/13	Online Final and Course Feedback**	
----	------	---	--

** Students must complete the course feedback (online). If not completed, Cisco will not allow students to enroll in any further academy courses.

NO WORK WILL BE ACCEPTED AFTER THE END OF CLASS, May 13, 2003

This syllabus is subject to modification as determined by the instructor to meet the educational needs of this class.

Grading:

Lessons / Chapter Exams (13, 25 pts ea)	325
Hands-on Lab Exercises (15, 5 pts ea)	75
Attendance & Participation	100
Group Project/Presentation	100
Semester 1 Terminology	50
Cisco On-Line Final Exam	350
TOTAL	1000

Extra Credit:

To improve cumulative points earned in class, students may submit a maximum of 5 extra credit assignments. Each assignment will be worth up to 10 points, and will be evaluated for completeness. See the instructor for additional information about earning extra credit points.