

Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.

COURSE SYLLABUS

CSIS 330

BUSINESS DATA COMMUNICATION SYSTEMS

COURSE DESCRIPTION

Business Data Communications. The study of the movement of information (data) from one device to another by means of electrical, optical, radio or satellite transmission systems. This course will introduce the architecture, concepts, terminology, design, and management issues related to the modern environment of networking and data communications. Various types of networks and communication systems, protocols, regulatory issues and policies will be explored. (Formerly BMIS 330)

RATIONALE

Data communications and networking systems are the foundation of today's business, online educational, and many personal infrastructures. Data communications and computer networks provide the basic framework through which every other application, software package, or interface is delivered, making them fundamental building blocks in any information system. This course provides foundational knowledge of data networking and prepares the student specializing in data networking for subsequent courses in the discipline.

I. PREREQUISITE

For information regarding prerequisites for this course, please refer to the [Academic Course Catalog](#).

II. REQUIRED RESOURCE PURCHASE

Click on the following link to view the required resource(s) for the term in which you are registered: <http://bookstore.mbsdirect.net/liberty.htm>

III. ADDITIONAL MATERIALS FOR LEARNING

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Microsoft Office

IV. MEASURABLE LEARNING OUTCOMES

Upon successful completion of this course, the student will be able to:

- A. Integrate the relevance of course material and the use of technology into a biblical worldview.

- B. Identify components of a modern computer network in a layered architecture as referenced in the OSI and TCP/IP models.
- C. Use current technologies to simulate, configure, test, and examine devices and traffic in a network.
- D. Construct basic network topologies.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

- A. Textbook readings, lecture presentations, and videos
- B. Course Requirements Checklist
 After reading the Course Syllabus and [Student Expectations](#), the student will complete the related checklist found in Module/Week 1.
- C. Packet Tracer Affirmation Statement
 After reading the Cisco Packet Tracer Terms of Use, the student will complete the related acknowledgement.
- D. Discussion Board Forums (2)
 Discussion boards are collaborative learning experiences. Therefore, the student is required to create a thread in response to the provided prompt for each forum. Each thread must be a minimum of 300 words, contain 2 citations, and demonstrate course-related knowledge. In addition to the thread, the student is required to reply to 2 other classmates' threads. Each reply must be a minimum of 100 words. Sources must be documented in current APA format.
- E. Labs (20)
 The student will complete a varying number of labs per module/week. This will include a combination of Packet Tracer, Wireshark, binary conversion, and OS command activities to reinforce the materials presented in each module/week.
- F. Quizzes (7)
 Each quiz will be open-book/open-notes and will consist of 25 true/false and multiple-choice questions. The student will have 45 minutes to complete each quiz.
- G. Final Exam
 The exam will be open-book/open-notes and will consist of 100 true/false and multiple-choice questions. The student will have 2 hours and 30 minutes to complete the exam.

VI. COURSE GRADING AND POLICIES

- A. Points
 Course Requirements Checklist

Packet Tracer Affirmation Statement	0
Discussion Board Forums (2 at 40 pts ea)	80
Labs (1 at 15 pts; 2 at 20 pts ea; 6 at 25 pts ea; 3 at 30 pts ea; 1 at 35 pts; 2 at 40 pts ea; 3 at 45 pts ea; 2 at 50 pts ea)	645
Quizzes (7 at 25 pts ea)	175
Final Exam	100
Total	1010

B. Scale

A = 900–1010 B = 800–899 C = 700–799 D = 600–699 F = 0–599

C. Disability Assistance

Students with a documented disability may contact Liberty University Online’s Office of Disability Academic Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at www.liberty.edu/disabilitysupport.

COURSE SCHEDULE

CSIS 330

Textbook: Cisco Press, *Introduction to Networks V6: Companion Guide* (2017).

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	Cisco Press: chs. 1–2 1 presentation 2 videos	Course Requirements Checklist	10
		Class Introductions	0
		Packet Tracer Affirmation Statement	0
		Lab 1	25
		Lab 2	30
		Lab 3	30
		Quiz 1	25
2	Cisco Press: ch. 3 2 presentations 2 videos	Lab 4	25
		Lab 5	25
		Lab 6	20
		Quiz 2	25
3	Cisco Press: ch. 4 1 presentation 13 videos	DB Forum 1	40
		Lab 7	25
		Lab 8	40
		Quiz 3	25
4	Cisco Press: chs. 5–6 1 presentation 5 videos	Lab 9	35
		Lab 10	45
		Lab 11	25
		Quiz 4	25
5	Cisco Press: chs. 9–10 1 presentation 6 videos	Lab 12	20
		Lab 13	25
		Lab 14	40
		Quiz 5	25
6	Cisco Press: ch. 7 1 presentation 8 videos	Lab 15	30
		Lab 16	15
		Lab 17	50
		Quiz 6	25
7	Cisco Press: ch. 8 1 presentation 2 videos 1 article 1 website	DB Forum 2	40
		Lab 18	50
		Quiz 7	25

8	Cisco Press: ch. 11 1 presentation 1 video	Lab 19	45
		Lab 20	45
		Final Exam	100
		TOTAL	1010

DB = Discussion Board

NOTE: Each course module/week (except Module/Week 1) begins on Tuesday morning at 12:00 a.m. (ET) and ends on Monday night at 11:59 p.m. (ET). The final module/week ends at 11:59 p.m. (ET) on **Friday**.