

**Angelina College
Business Division
ITNW 1325
Instructional Syllabus**

I. BASIC COURSE INFORMATION

- A. **Course Description:** *(as stated in the bulletin, including necessary pre-requisite courses, credit hours)*
Three credit hours. Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. Three lecture hours each week including lab exercises. Prerequisites: Satisfy Business Division guidelines. See Division Director. Lab fee.
- B. **Intended Audience:**
This is a freshman-level course that is intended for Computer Information Systems majors and/or students who wish to pursue the Microsoft Technology Associate (MTA) Certification.
- C. **Instructor:**
Name: Robyn Segrest
Office Location: Lufkin High School E-119
Office Hours: 7:30 a.m. - 9:30 a.m. M - F and by appointment
Email Address: rsegrest@lufkinisd.org or rsegrest@angelina.edu

II. INTENDED STUDENT OUTCOMES:

- A. **Core Objectives**
1. **Critical Thinking Skills** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
 2. **Communication Skills** to include effective development, interpretation and expression of ideas through written, oral and visual communication
 3. **Personal Responsibility** to include the ability to connect choices, actions and consequences to ethical decision-making
- B. **Course Objectives for all sections –**
1. The student will demonstrate the ability to identify and use appropriate network transmission media.
 2. The student will explain the OSI model.
 3. The student will recognize the primary network topologies/protocols, identify their characteristics, and determine which would be most appropriate for a proposed Network.
 4. The student will demonstrate an understanding of the functions of a network operating system and be able to distinguish between centralized, client/server, and peer-to-peer systems.
 5. The student will demonstrate the ability to distinguish between Local Area Networks (LANs) and Wide Area Networks (WANs).
 6. The student will identify the components used to expand a LAN into a WAN.

III. ASSESSMENT MEASURES OF STUDENT LEARNING OUTCOMES:

A. Assessments for the Core Objectives –

1. **Critical Thinking Skills**— Students will research an assigned topic and write a well-developed essay which requires them to draw an opinion based upon their understanding of the facts. The essay will be assessed using a rubric which incorporates the Angelina College Institutional Rubric for Critical Thinking Skills.
2. **Communication Skills**— Students will research a topic and write a well-developed essay summarizing the researched topic. The essay will be assessed for writing skills and synthesis ability. Communication skills will be assessed using a rubric which incorporates the Angelina College Institutional Rubric for Communication Skills.
3. **Personal Responsibility**— Students will learn personal responsibility by keeping up with their assignments and submitting them on or before their due dates. Students adherence to deadlines will be assessed using a rubric which incorporates the Angelina College Institutional Rubric for Personal Responsibility.

B. Assessments for Course Objectives for all sections –

1. The student will demonstrate the ability to select and use appropriate network transmission media by performing a hands-on lab activity.
2. The student will demonstrate an understanding of the OSI model by correctly answering embedded questions on an exam.
3. The student will recognize the primary network topologies/protocols, identify their characteristics, and determine which would be most appropriate for a proposed network by completing a case study.
4. The student will demonstrate an understanding of the functions of a network operating system and be able to distinguish between centralized, client/server, and peer-to-peer systems by correctly answering embedded questions on exams.
5. The student will demonstrate the ability to distinguish between Local Area Networks (LANs) and Wide Area Networks (WANs) by correctly answering embedded questions on exams.
6. The student will identify the components used to expand a LAN into a WAN by correctly answering embedded questions on exams.

IV. INSTRUCTIONAL PROCEDURES:

A. Methodologies utilized in presenting course content (lectures, audio-visual presentations, discussions, examinations, student presentations, field trips, guest speakers, etc.)

Methodologies used in this course include lecture, video demonstrations, and hands-on lab activities.

V. COURSE REQUIREMENTS AND POLICIES:

A. Required Textbooks, Recommended Readings, Materials, and Equipment –

Network+ Guide to Networks, 7th Edition, Cengage Learning
ISBN: 978-1-305-09094-1

B. Course Policies – (This course conforms to the policies of Angelina College as stated in the Angelina College Handbook.)

Academic Assistance – If you have a disability (as cited in Section 504 of the Rehabilitation Act of 1973 or Title II of the Americans with Disabilities Act of 1990) that may affect your participation in this class, you should see Sellestine Hunt, Associate Dean of

Student Services, Student Center, Room 200. At a post-secondary institution, you must self-identify as a person with a disability; Ms. Hunt will assist you with the necessary information to do so. To report any complaints of discrimination related to disability, you should contact Steve Hudman in the Administration Building, Room 101 or 936-633-5201.

1. **Discrimination** – Angelina College admits students without regard for race, color, creed, sex, national origin, age, religion, or disability. Inquiries concerning sex equality, disability, or age should be directed to Mr. Steve Hudman, Dean of Student Affairs, in Student Center, Room 101, [\(936\)-633-5292](tel:936-633-5292) or by email shudman@angelina.edu.

Attendance –You are expected to attend class regularly. According to Angelina College’s policy, an instructor may drop a student after 3 consecutive or 4 accumulative absences, and if the student wishes to be readmitted, the approval must come from the Dean of Instruction. If you are unable to complete this course, you must officially withdraw from the course by November 6, 2017. If you stop attending and do not withdraw, you will receive a performance grade of “F.”

Additional Policies Established by the Individual Instructor –

- **Respect Issues** – Disrespect for the instructor or fellow classmates will not be tolerated. Examples of disrespect include talking while the instructor or another student is talking, surfing the Internet or utilizing social media for non-course related purposes (that is, for anything other than this course), texting, sleeping, etc.
- **Cell phones** – Phones must be turned off in class or placed in silent mode (not vibrate). Turn off all cell phones before an exam. If a cell phone vibrates or rings during an exam, the student will receive a zero on the exam.
- **Plagiarism** – Students are NOT allowed plagiarism in any form. Duplication of the work of others will result in a grade of ZERO (0) for the work. Any work which requires research also requires documentation. All sources must be documented with both parenthetical referencing (author, date) and sources cited. Copying and Pasting without quotation marks is plagiarism, which is cheating. Work containing cut and paste will not be graded (resulting in a zero on the assignment). If you need a quote (for emphasis only) —make SURE you have provided quotation marks. Failure to do so will result in a zero on the assignment.
- **Cheating** – Cheating includes copying the work of classmates on assignments or exams. Cheating includes copying and/or collusion by the work of any other person. Cheating will result in a zero for the assignment/exam and possible failure of/expulsion from the course. Plagiarism (cheating) includes copying the work of others without quotation marks and proper citations.

VI. COURSE OUTLINE:

A. Required content/topics of the course

Topics

Chapter 1 - Introduction to Networking

Chapter 2 - How Computers Find Each Other on Networks

Chapter 3 - How Data is Transported Over Networks

Chapter 4 - Structured Cabling and Networking Elements

Chapter 5 - Network Cabling
Chapter 6 - Wireless Networking
Chapter 11 - Wide Area Networks
Chapter 10 - Network Segmentation and Virtualization
Chapter 7 - Cloud Computing and Remote Access

Day

- 8/31 Introduction to Course
- 9/7 Chapter 1 Discussion
Chapter 1 Review Questions (Due Thu, 9/14)
Read Chapter 2
- 9/14 Chapter 2 Discussion
Chapter 2 Review Questions (Due Thu, 9/21)
Read Chapter 3
- 9/21 Chapter 3 Discussion
Chapter 3 Review Questions (Due Thu, 9/28)
- 9/28 **Exam #1 (Chapters 1 - 3)**
Read Chapter 4
- 10/5 Chapter 4 Discussion
Chapter 4 Review Questions (Due Thu, 10/12)
Read Chapter 5
- 10/12 Chapter 5 Discussion
Chapter 5 Review Questions (Due Thu, 10/19)
- 10/19 Lab Day (Cabling Lab)
Read Chapter 6
- 10/26 Chapter 6 Discussion
Chapter 6 Review Questions (Due Thu, 11/2)
Read Chapter 11
- 11/2 Chapter 11 Discussion
Chapter 11 Review Questions (Due Thu, 11/9)
- 11/6 *Last Day to Withdraw and still receive a grade of "W"*
- 11/9 **Exam #2 (Chapters 4 - 6, 11)**
Read Chapter 10
- 11/16 Chapter 10 Discussion
- 11/23 Thanksgiving Holiday

- 11/30 Chapter 10 Discussion Cont'd
Chapter 10 Review Questions (Due Thu, 12/7)
 Read Chapter 7
- 12/7 Chapter 7 Discussion
Research Paper (Due Sat, 12/9)
Chapter 7 Review Questions (Due Thu, 12/14)
- 12/14 **Exam #3 (Final) – THURSDAY, 12/14 (Chapters 10 – 11)**

VII. EVALUATION AND GRADING:

A. Grading Criteria *(percentages, extra credit, etc.)*

Exams	300 (3 @ 100 pts each)
Assignments	270 (9 @ 30 pts each)
Research Paper	100
Labs	20
Attendance	<u>10</u>
	700 points possible

B. Determination of Grade *(assignment of letter grades)*

A	630 - 700
B	560 - 629
C	490 - 559
D	420 - 489
F	Below 420

Three **exams** (which include the final exam) will be administered during the semester. The exams must be taken in class on the date scheduled. ***If you miss an exam, you may take a comprehensive final exam, in addition to the scheduled final exam. The comprehensive final exam will only replace one missed exam.*** The final exam is not comprehensive.

Assignments will consist of the end-of-chapter review questions. ***Chapter review questions will be accepted up to 2 days beyond the due date. However, if turned in late, a penalty of -5 points will be assessed for each day late. If not turned in by the second day after the due date, a grade of zero will be recorded.***

Labs will be interspersed throughout the course. One class period, however, will be devoted to labs. Your attendance and participation will earn you credit toward the labs.

You will research a topic of your choosing related to the course material and write a 2 – 3 page paper based on your findings. Please cite the resources you used (i.e. titles of books, articles, media coverage, etc.). Use the MLA citation style. For assistance with formatting your paper in the proper MLA format, visit the Tutoring Center in the Library. You will submit your paper through the Assignment tab in Blackboard.

Extra Credit: There will be a comprehensive quiz for 10 extra credit points available at the end of the semester. It will be administered online through Blackboard and will be due by 11:59PM on Saturday, December 9th.

VIII. SYLLABUS MODIFICATION:

The instructor may modify the provisions of the syllabus to meet individual class needs by informing the class in advance as to the changes being made.