Course Title: IST 1134 - Fundamentals of Data Communications
Instructor: Sandra Coleman
Office Location: 149b
Office Phone: (662) 243-1958
E-mail: scoleman@eastms.edu
Office Hours: Mon-Thurs: 2:00 – 3:00; Friday 8:00 – 12:00
Division: Undergraduate

Course Description: This course presents basic concepts of telephony, local area networks, wide area networks, data transmission, and topology methods. (4 sch: 2 – hr lecture, 4-hr lab).

Prerequisite: None
Course Credit: 4 hours

Required Text(s):


Student Learning Outcomes:
The student will be able to:
1. Examine career opportunities.
2. Discuss computer hardware components.
3. Analyze communications networks.
4. Analyze network hardware and media.
5. Examine the ISO/OSI model
6. Investigate physical topologies.
7. Describe network transport systems
8. Analyze TCP/IP protocols as they are used in a networking environment.
10. Evaluate and recommend methods to troubleshoot wiring.
11. Evaluate trends of network communication.

Methodology:
This class will be taught using the following methods:
Lecture 33%
Labs 66%

Grading Procedure:
<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>My Chapter Tests</td>
<td>40%</td>
</tr>
<tr>
<td>Lab Manual</td>
<td>20%</td>
</tr>
<tr>
<td>Study Guide, on-line Ch. Tests, and other homework</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam – (On-line and Skills Based)</td>
<td>25%</td>
</tr>
<tr>
<td>Attendance</td>
<td>5%</td>
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</tbody>
</table>

Grade Evaluation:
Grades for this course will follow the standards published in the EMCC College Catalog.

90-100  A ............. Represents superior or outstanding achievement in prescribed work
80-89  -  B ............. Above-average achievement in prescribed work
70-79-  C ............. Average level of achievement
64-69 -  D ............. Below-average achievement (This is the lowest passing grade.)
< 64 -  F ............. Failure to pass prescribed work
    I ............. Incomplete - (Becomes F - Unless removed within one semester)
    W ............. Withdrawal (No GPA penalty if within the drop date)
    WP .......... Withdrawal Passing (After drop date)
    WF .......... Withdrawal Failing (After drop date – penalty to GPA)
    FA .......... Failure to Attend (penalty to GPA)
    AU .......... Audit
    P ............. Pass

Quality point are assigned for grades earned according to the following schedule:
A..........................................................4 for each semester hour
B..........................................................3 for each semester hour
C..........................................................2 for each semester hour
D..........................................................1 for each semester hour
F, WF, FA .................................................0 for each semester hour

The final grade in each course attempted will be counted for quality-point purposes. The formula for
calculating grade-point average is Total Quality Points divided by Hours attempted. “WF” grades will
count as “F” grades in GPA computation.
Any challenge of a final grade must be initiated by mid-semester of the next term after the grade was
recorded. For purposes of this procedure, the summer is considered a usual term.

Attendance Policy:
EMCC expects all students to be on time and in class at every class session. For additional information,
please see the EMCC Catalog & Student Handbook 2012-2013

Statement for Students with Disabilities: EMCC follows all Americans with Disabilities Act standards.
Disclosure of a disability is voluntary. Students with disabilities are invited and encouraged to discuss
their needs and accommodation strategies with the Dean of Students.
## Course Outline: IST 1134-Fundamentals of Data Communications (CCNA1 – Exploration)

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Online Chapter</th>
<th>Objective</th>
<th>Activities</th>
<th>Labs</th>
<th>Packet Tracer</th>
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<tbody>
<tr>
<td>1</td>
<td>Aug. 20</td>
<td>-</td>
<td>Syllabus, Safety test, Living in a Network-Centric World</td>
<td>1-1, 1-2</td>
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<tr>
<td>2</td>
<td>Aug. 27</td>
<td>2</td>
<td>Communicating over the Network</td>
<td>2-1, 2-2</td>
<td>2.7.1.3</td>
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<tr>
<td>3</td>
<td>Sept 3</td>
<td>8</td>
<td>OSI Physical Layer</td>
<td>8-1</td>
<td>8.5.1.3</td>
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<tr>
<td>4</td>
<td>Sept. 10</td>
<td>7</td>
<td>Labor Day Holiday - OSI Data Link Layer</td>
<td>7-1</td>
<td></td>
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<tr>
<td>5</td>
<td>Sept. 17</td>
<td>6</td>
<td>Addressing the Network: IPv4</td>
<td>6-1, 6-2</td>
<td>6-1, 6-2, 6-3</td>
<td>6.8.1.3</td>
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<td>6</td>
<td>Sept. 24</td>
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<td>7</td>
<td>Oct. 1</td>
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<td>8</td>
<td>Oct. 8</td>
<td>5</td>
<td>OSI Network Layer</td>
<td>5-1, 5-2</td>
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<td>9</td>
<td>Oct. 15</td>
<td>4</td>
<td>OSI Transport Layer</td>
<td>4-2, 4-3</td>
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<td>10</td>
<td>Oct. 22</td>
<td>3</td>
<td>Application Layer Functionality and Protocols</td>
<td>3-1, 3-2</td>
<td>3.5.1.3</td>
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<td>11</td>
<td>Oct. 29</td>
<td>9</td>
<td>Ethernet</td>
<td>9-1, 9-2</td>
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<td>12</td>
<td>Nov. 5</td>
<td>10</td>
<td>Planning and Cabling Networks</td>
<td>10-1, 10-2</td>
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<tr>
<td>13</td>
<td>Nov. 12</td>
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<tr>
<td>14</td>
<td>Nov. 19</td>
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<td>Fall Break/Thanksgiving Holidays</td>
<td>11-2, 11-3,</td>
<td>11-4</td>
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<tr>
<td>15</td>
<td>Nov. 26</td>
<td>11</td>
<td>Configuring and Testing Your Network</td>
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<td>16</td>
<td>Dec. 3</td>
<td>Finals</td>
<td>Hands on Finals</td>
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<tr>
<td>17</td>
<td>Dec 10-11</td>
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<td>Finals</td>
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<td>18</td>
<td>Dec. 12-14</td>
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<td>Finals On-Line Final Exam</td>
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Course Outline may be changed as deemed necessary by the instructor.

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East Mississippi Community College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Andrea Scott Mayfield, Vice President for Scooba campus, Scooba Student Services, EEOC/OCR and Institutional Research & Effectiveness, Davis Administration Building, P.O. Box 158, Scooba, MS 39358, Telephone: (662) 476-5000. E-mail: ascott@eastms.edu

Póngase en contacto con Dr. Andrea Mayfield en (662) 476-5000 para la traducción española.