Fundamentals of Networking
ITNW 1425 - 63400
Spring 2016
January 20th through May 12th 2016

Professor: Dr. Doug Keenan
Email: dkeenan1@dcccd.edu
Office Phone Number: 214-860-8730
Office Number: W121E
Office Hours: None – Online Course
Meeting Days & Time: - Online Course
Room Number: Online Course
Credit Hours: 4

Division: Business, Computers, Mathematics, and Technical Programs
Office Hours: 8:00 AM – 5:00 PM
Office Phone: 214-860-8619
Office Location: W210

Course Description:
Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

Course Pre-requisites:
None

WCEM Statement:
This is a WCEM course.

Course Materials/Supplies Needed:
Textbook - Networking Fundamentals, Microsoft Official Academic Course, Wiley, ISBN: 978-0-470-90183-0. You can download a free electronic version of the textbook. Go to Blackboard and click on Course Information. Click on the link to download the textbook.

You can also purchase the textbook. To purchase the book through the MVC bookstore go to:

http://shop.efollett.com/htmlroot/textbooks/SelectByCourse_02.jsp
If you have a problem obtaining the textbook please let the professor know as soon as possible.

Student Learning Outcomes:

After successful completion of this course the student should be able to:

1. Identify and use network transmission media
2. Explain the OSI model
3. Identify the characteristics of network topologies and protocols
4. Identify the functions of a network operating system and distinguish between centralized, client/server, and peer-to-peer systems
5. Distinguish between Local Area Networks (LANs) and Wide Area Networks (WANs)
6. Identify the components used to expand a LAN into a WAN

Evaluation Procedures:

1. Final Grade: 80% Major online Test, 5% Online Quizzes, 15% Labs.

2. All test and quiz questions will come from textbook.

3. One major online test will be given. You must complete the major online test on or before the last day of class. If you want to take the test before the scheduled date, please send the professor an email and it will be setup for you.
   
   A. The major online test will be multiple choice and given over the Internet.
   
   B. You can take the major online test TWO times. If you successfully complete the test the first time, you do not need permission to take the test the second time. If you take the test for the second time, the higher of your two scores will be the recorded score. Your major online test score will be displayed upon completion of the test.
   
   C. If for some reason the testing system goes down while you are taking the major online test you must send the instructional manager an email so your test can be reset. Do not put off taking the final online test to the last class day. If for some reason the testing system fails there may not be enough time to reset your test. The instructor will not reset the final online test after 9:00 PM on the last scheduled day for the final online test.
   
   D. The major online test is timed. If you go over the set time limit the Blackboard testing system will force a completion. The score you have at the cutoff time will be your score for the test. For example, if the time limit is set at 90 minutes and you have completed only 50 questions out of 100 (and you have answered all 50 questions correctly) your final grade for the test will be 50%. If you have a reading disability such as dyslexia, you may get a written excuse from a Mountain View counselor to waive the time limits.
   
   E. Quizzes are not timed and you can take them as many times as you like. The last time you take a quiz will be the recorded score. It is highly recommended that you take the quizzes as many times as you can. Many of the quiz questions will be on the final online test.
   
   F. You can use your textbooks and notes to take tests and quizzes.
   
   G. Because of security reasons, tests and quizzes will not be reviewed. Please do not ask the instructor to review test or quiz questions, he will not respond.

4. The major online test will be curved according to class average. If the class average for a particular test is below 75%, points will be added to everyone’s grade to make the class average 75%. Since some students put off taking the test to the end semester, the class test average will not be calculated until all students have completed the major online test.
5. Quizzes work like tests except they are not timed and you can take them as many times as you like. You should receive a quiz score immediately after submission. You can check your quiz scores on Blackboard. You should take the quizzes as many times as you can. The better you do on the quizzes the better you will do on the final online test. Do not put off taking quizzes to the very end of the semester.

6. Labs and lab instructions are listed on the Blackboard Labs link. You can view your lab, quizzes, and final online test score by clicking on the Blackboard Grade Link.

7. The major online test must be completed on or before the last scheduled day of class. Quizzes and labs must be completed on or before last scheduled day of class.

**Instructor Attendance Policy:**
This is a 100% online course. Attendance at Mountain View College is not required. It is the student's responsibility to periodically check Ecampus for messages, quizzes, labs, and tests. There is no on-campus orientation class required for this course.

*Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending by the certification date.*

**Grading Scale:**
If your final average is:

- 90-100=A
- 80-89=B
- 70-79=C
- 60-69=D
- Below 60=F

**Calculating your final grade:**
To calculate your final grade multiply the weight by the average grade for each area and add the results. Let's say your final grades and their weights are:

Final Online Test Average = 80 x .8(80%) = 64
Quiz Average = 85 x .05(5%) = 4.25
Lab Average = 90 x .15(15%) = 13.5

Final Grade = 64 + 4.25 + 13.5 = 81.75

**Certification Procedures:**
To meet the certification requirements for the course you must take the Orientation Quiz on or before the certification date, February 2nd, 2016.

The withdraw date for this class is April 14th, 2016.
**Academic Dishonesty:**

Students that caught plagiarizing an assignment will be subject to an “F” in the course and possible expulsion from the college.

Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog. More information is available at [https://www1.dcccd.edu/catalog/ss/code.cfm](https://www1.dcccd.edu/catalog/ss/code.cfm).

**Institution Policies:** Please visit [http://www.mountainviewcollege.edu/Academics/Documents/Institutional%20Policies.pdf](http://www.mountainviewcollege.edu/Academics/Documents/Institutional%20Policies.pdf) for a complete list of institutional policies (Stop Before You Drop; Withdrawal Policy; Repeating a Course; Financial Aid; Academic Dishonesty; Americans with Disabilities Act Statement; Religious Holidays; and Campus Emergency Operation Plan and Contingency Plan.).

<table>
<thead>
<tr>
<th>Lesson</th>
<th>Topic</th>
<th>Date</th>
<th>Quiz</th>
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<tbody>
<tr>
<td>1</td>
<td>Understanding Local Area Networking</td>
<td>Feb 9</td>
<td>1</td>
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<tr>
<td>2</td>
<td>Defining Networks with the OSI Model</td>
<td>Feb 23</td>
<td>2</td>
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<tr>
<td>3</td>
<td>Understanding Wired and Wireless Networks</td>
<td>Mar 8</td>
<td>3</td>
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<tr>
<td>4</td>
<td>Understanding Internet Protocols</td>
<td>Mar 22</td>
<td>4</td>
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<tr>
<td>5</td>
<td>Implementing TCP/IP in the Command Line</td>
<td>Apr 5</td>
<td>5</td>
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<tr>
<td>6</td>
<td>Working with Network Services</td>
<td>Apr 15</td>
<td>6</td>
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<tr>
<td>7</td>
<td>Understanding Wide Area Networks</td>
<td>May 3</td>
<td>7</td>
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<tr>
<td>8</td>
<td>Defining Network Infrastructures and Network Security</td>
<td>May 9</td>
<td>8</td>
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All labs, quizzes and final online test must be completed on or before the last day of class, May 12, 2016.