

MIDSTATE COLLEGE  
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Summer 2008

**Course number & Name:** MSE 210 Windows Network Infrastructure

**Instructor Information:** Brian Hughes [bhughes@midstate.edu](mailto:bhughes@midstate.edu)

**Credit hours:** 4

**Method of Delivery:** Classroom

**Course Description:** Students will learn to plan and implement the logical infrastructure that underlies Microsoft Windows Networks. Topics include network protocols, name resolution, Virtual Private Networks, Network Address Translation, and certificate authorities. Upon completion of this course, the student will have covered the necessary topics for the corresponding Microsoft certification exam.

**Prerequisite:** MSE 115 Windows Server Administration

**Text(s) & Manual(s):** 70-291 Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure  
ISBN # 0-7356-2030-x

**Author(s):** Greg Bott

**Publisher:** Microsoft Press, 2004

**Materials needed for this course:** None

**Topics:** TCP/IP, IPSec, Host Names, DNS, WINS, DHCP, RAS

**Learning Objectives:**

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

- Install, configure, manage, monitor, and troubleshoot DNS in a Windows Network Infrastructure
- Install, configure, manage, monitor, and troubleshoot DHCP in a Windows Network Infrastructure
- Install, configure, manage, monitor, and troubleshoot Remote Access in a Windows Network Infrastructure
- Install, configure, manage, monitor, and troubleshoot Network Protocols in a Windows Network Infrastructure
- Install, configure, manage, monitor, and troubleshoot WINS in a Windows Network Infrastructure
- Install, configure, manage, monitor, and troubleshoot IP Routing in a Windows Network Infrastructure
- Install, configure, and troubleshoot NAT in a Windows Network Infrastructure.
- Install, configure, manage, monitor, and troubleshoot Certificate Services in a Windows Network Infrastructure

**Midstate Grading scale:**

This is a standardized syllabus for MSE 210. All modifications will be made by the program coordinator to maintain consistency.

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

### **Midstate Plagiarism Policy:**

Matters related to academic honesty or contrary action such as cheating, plagiarism, or giving unauthorized help on examinations or assignments may result in an instructor giving a student a failing grade for that academic effort and also recommending the student be given a failing grade for the course and/or be subject to dismissal.

Plagiarism is using another person's words without giving credit to the author. Original speeches, publications, and artistic creations are sources for research. If you use the author's words in your papers or assignments, you must acknowledge the source. Plagiarism is strictly against the academic policy of the college and is grounds for failing the course. If repeated, plagiarism may result in suspension from the college.

### **Assessment Portfolio Reminder:**

Each student is required to prepare an assessment portfolio for graduation. Keep a copy of this syllabus in the portfolio. Use the "Evidence for Success" list for your program, which is already in the portfolio, and instructions from the instructor to determine the assignment(s) that should be in the assessment portfolio.

### **Participation requirement/policies and procedures/requirements to pass the course:**

- 1) Assignments: Homework is due at the beginning of the class period. All homework is to be turned in with your name, date, and the name of the assignment at top. 70% is the highest score that late or make up work can earn. No make up work is accepted during finals week.
- 2) Exams: Must be taken on the dates scheduled by the instructor. Failure to take an exam on the scheduled date will result in a grade of "F" (0 points). Make-up exams will be given only when special circumstances are approved by the instructor. Make-up exams must be taken in the testing center. It is the student's obligation to make the appropriate arrangements to have a test administered.
- 3) Attendance: Regular attendance is expected. It is the student's responsibility to notify the instructor when a class will be missed. If you know of a conflict ahead of time, you are welcome to submit projects early. If you find that an absence is unavoidable, contact the Midstate Office at 692-4092 and leave a message or email me at the address above. If I do not receive a call or email before the missed class period, you will be considered unexcused and no make-up will be allowed for that day. Lab work must be completed in class on the furnished equipment. Make up lab work can be scheduled with the instructor if an absence is unavoidable. Lab work will be done almost every class.
- 4) Academic Dishonesty: Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper or project; failure in course; and/or expulsion from the college. For more information refer to the "Academic Dishonesty" policy in the student handbook.
- 5) Grades: It is the students' responsibility to keep copies of all assignments turned in for a letter grade until the end of the quarter when a final grade has been earned. If a document is lost and no copy is available, the student will not receive credit.
- 6) Behavior: Cell phones / beepers are prohibited from use in this course. Also, do NOT use e-mail/messenger programs during class. This is not only rude to your instructor, but also distracts you and others around you from the learning experience.
- 7) Student Responsibility: The following are the student's responsibilities:

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- Reading the class textbook and any other material assigned by the instructor, including journals, magazines, white papers, and Internet materials. Chapter material covered during class should be read BEFORE the start of class.
- Participating in oral presentations and classroom discussions
- Participating in lab exercises
- Completing all assignments and quizzes/exams
- Keep your Lab journal up to date. This should be at least 1 paragraph documenting your experience with the lab, such as, any problems you experienced, specific things that you learned, any other thoughts that come to you as the result of the lab assignment. Lab assignments and your lab journal make up 45% of your grade.

**Methods of evaluating student performance:** Homework assignments are used to assess students' critical thinking skills. Lab work assignments will be used to measure the students' ability to apply concepts learned from lecture in a hands-on way.

**Examination Information:** The quizzes and exams will be a combination of fill-in the blank, true/false, multiple-choice questions, matching, and a hands-on practicum. Quizzes will focus mostly on recently covered material; however, earlier material will still be included at some points to ensure the foundation concepts are fully understood. The midterm will cover the Hardware aspect of the A+ Certification objectives. The final examination will cover the Operating Systems aspect of the A+ Certification Objectives.

**Instructor's Grading Scale:**

These percentages are approximate values

• Homework Assignments	(100 pts.)	29%
• Lab assignments / Lab journal	(50 pts.)	14%
• Quizzes/Exams	<u>(200 pts.)</u>	<u>57%</u>
Total:	350 pts	100%

The following is a tentative schedule for the course. The instructor reserves the right to make schedule changes based on the needs of the students in the class.

Day	Date	Assignment
Week 1	5/21	Class introduction
Week 2	5/28	Chapter 1
Week 3	6/4	Chapter 2
Week 4	6/11	Chapter 3
Week 5	6/18	Chapter 4
Week 6	6/25	Midterm Exam
Week 7	7/2	Chapter 5
Week 8	7/9	Chapter 6
Week 9	7/16	Chapter 7
Week 10	7/23	Chapter 8
Week 11	7/30	Chapter 9
Week 12	8/6	Final Exam

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## **Tips to Succeed**

1. **Read the book!** Please read chapters before the class day you are scheduled to discuss them. This will make it easier for you to understand the lecture and also to be prepared to ask questions if you have any.
2. **Good Attendance!** School is like a job and to succeed you need to work at it.
3. **Study, study, study!** The student handbook recommends studying 2 hours for every hour of class time scheduled. For example: for a 4 credit hour class you need to study 8 hours a week. Please refer to the student handbook page 31 for more learning strategies.
4. **Ask questions!** If you do not understand a topic, please ask questions! This is “YOUR COLLEGE” make the most of it.