Instructor: Ms. Debbie Keller. See the General Course Information Sheet for more information.

Course Name: Network Authentication & Security
Course Number: 2440:410:801

Required Texts:
The Lab Manual is required for every student. The labs are performed as a team. Each member must maintain his or her own lab manual. Online access to the curriculum will be needed to access the curriculum.

Prerequisites: Students must pass the CCNA and a skills test at UA given the first week of class, OR have successfully completed all four CCNA Cisco Networking Academy courses.

Other Materials. A composition book or hand-written papers may be used in conjunction with the skills final exam. You may put any hand-written entries into it that you wish. Only hand-written entries (your own handwriting) may be used as reference material during the Skills Final Exam.

Course Description: This course focuses on network security issues related to conducting business over the Internet, including authentication, authorization, and firewalls. This course will allow students to discover the extent of the concerns and current solutions. Cisco routers and firewalls will be used to configure perimeter security.

Rationale: Secure networks are essential to safely conducting business over the Internet as well as protecting the privacy and communications of individuals and business transactions.

Objectives: The objectives of this course will be as follows:
- Understand the elements and issues of Information Technology (IT) security.
- Understand the evolution of IT security.
- Configure perimeter security including firewalls and routers, access-lists and secure VPN.

CISCO ACADEMY COURSE GRADING: There are two parallel grading schemas for Cisco Networking Academy courses, The University of Akron (UA) grading system and the Cisco Networking Academy evaluation kept online at the Cisco Networking Academy evaluation website. You must successfully complete BOTH sets of criteria before moving on to the next course in the series.

Cisco's Cisco Networking Academy evaluation:
Attendance is graded pass/fail. 75% or better is a passing grade.
Skills exams. You must pass the skills exams.
Instructor must pass you for the course, which means that you must pass using the UA grading system below.
Class Attendance: Some material presented in this class is not available in the text. Lab access will only be available during the class. Therefore, class attendance is critical and is part of the grade. Failure to attend class at least 75% of the class periods results in attendance failure for the Cisco Networking Academy grade and failure of the course on the Cisco Networking Academy website.

Quizzes: There will be assigned class times to take chapter quizzes.

- You may take a chapter quiz only during this time period.
- All other windows on your computer are to be closed.
- You must take all chapter quizzes from a UA workstation in the classroom. You may not use your own PC.
- Once you begin a quiz, you may not leave your workstation until the quiz has been graded.
- You may not reference any notes or online resources or other students.
- You may not copy, print, or save any questions from an online quiz or exam.
- No personal disks of any kind shall be in any workstation drives while quizzes or exams are active.
- You will be able to retake chapter quizzes only once. The original grade and the retake grade will be averaged together.
- Two weeks time must elapse between the time of originally taking a chapter quiz and a retake.
- All chapter exams, originals and any retakes, must be taken prior to the start of the online final exam period. No chapter tests will be given after the online final exam period begins.
- If you are late taking an exam, your grade will be calculated as follows: 10% of the total possible points will be deducted for each day late. One day late begins 5 minutes after the announced start time of the exam. Thus, if you know in advance that you are going to miss a class, you should arrange to take your exam prior to the class schedule to avoid late penalties.

* Failure to abide by these rules may result in immediate failure of the course and may result in further disciplinary action.

Grading Policy: You will be assigned the same grade for the lecture and lab course sections. The grade will be based on the standard university scale as outlined in the General Course Information Sheet. The grade will be calculated as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>Online Chapter Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Lab Book</td>
<td>20%</td>
</tr>
<tr>
<td>Router Online Exam</td>
<td>10%</td>
</tr>
<tr>
<td>Firewall Online Exam</td>
<td>10%</td>
</tr>
<tr>
<td>Individual Router Skills Exam</td>
<td>10%</td>
</tr>
<tr>
<td>Individual Firewall Skills Exam</td>
<td>10%</td>
</tr>
<tr>
<td>Team Skills Exam</td>
<td>10%</td>
</tr>
<tr>
<td>Attendance</td>
<td>10%</td>
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</tbody>
</table>

ALL WORK MUST BE TURNED IN BY THE START OF THE FINAL EXAM PERIOD. NO LATE WORK OF ANY KIND WILL BE ACCEPTED AFTER THIS DATE AND TIME.

Labs
Lab Manuals. The Lab Book will be graded periodically throughout the semester. Weekly progress should be evidenced as should evidence that the team is reviewing the lab exercises prior to going into the lab. Failure to do these things may reduce the final grade of the documents. The labs are done as a team. Each member must maintain a lab manual.

Lab Teams. Each team will have an assigned time slot in the router lab when appropriate. The team should be prepared by having read the appropriate chapter(s) and planned their lab work prior to their lab time in order to use this time wisely. Each team member turns in the labs as soon as they are completed. Missing a lab with your team may not be able to be made up, given the fast pace of the course, and results in an automatic maximum of 80% on that particular lab score.

Exams

Skills Exams: There will be two parts to the skills exams, an individual part and a team exam. These will be given during the 14th and 15th week of classes. Should a student or team fail an exam, a second attempt can be scheduled during the following week outside of class time. Should a student or team need a second attempt, the final score will be calculated as a maximum of 75% or the actual student score, whichever is lower. For the individual exam, students will be given a list of expected skills at least two weeks ahead of time. At the time of the exam, the student will be assigned a random skill or skills from the list and must successfully complete the task in the given time period. For the team skills exam, the team will be given a scenario that they are expected to successfully complete in the assigned time period.

The Router Online Final exam may be taken any time after all online router chapter exams have been completed, but no later than the 13th week of classes. This exam can be taken only once. Once complete, a student may not retake any online router chapter exams.

The Firewall Online Final exam will be given during the 16th week of classes (final exam week). All firewall chapter exams must be completed prior to taking the firewall final exam. This exam can be taken only once. Once complete, a student may not retake any online firewall chapter exams.

MORE INFORMATION, including the grading scale, lab rules, and other general information can be located on the General Course Information sheet.

Course syllabus is subject to change at the instructor's discretion.

This page last updated on Jan. 15, 2005 by keller@uakron.edu