COURSE DESCRIPTION:
Identify elements of firewall design, types of security threats and responses to security attacks. Use best practices to design, implement, and monitor a network security plan. Examine security incidents postmortem reporting and ongoing network security activities. (3 Lec., 4 Lab.) This is a WECM Course. Designated by the Texas Higher Education Coordinating Board as workforce education (technical) courses offered for credit and CEUs (Continuing Education Units). While these courses are designed to transfer among state community colleges, they are not designed to automatically transfer to public four year colleges and universities.

COURSE PREREQUISITES:
**ITSY 1442 or instructor approval.** Prior networking course, networking experience or instructor approval. In general, students taking this course are expected to have a working knowledge of the Windows operating system, networking, and be able to use a search engine to find information on the World Wide Web. Students desiring a review should consult any general Introduction to Computers and Networking text.

COURSE OBJECTIVES:
This course examines the major network security tools in use today, with the idea that firewalls are most effective when backed by thoughtful security planning, well-designed security policies, and integrated support from anti-virus software, intrusion detection systems, and related tools. Coverage includes packet filtering, authentication, proxy servers, encryption, bastion hosts, virtual private networks (VPNs), log file maintenance, and intrusion detection systems.

On-line means that you take the entire course via a computer connected to the Internet and do not have to attend scheduled class meetings or visit the campus during the semester. On-line also implies that you will use the Internet as a research tool when working on various assignments. While you may work wherever and whenever you like, you will be expected to follow a schedule with due dates for various activities. Your average time commitment should be between 7 and 10 hours per week on this course.

**Important Note:** On-line courses have advantages and disadvantages over regular classroom classes and it's very important that you be aware of the differences. Before you register or begin your work, have a look at *Should I Take an On-line Course?*. It's located in the Course Information section - the same place that you found this syllabus.

**Required Textbook:**
Students are required to use the following textbook:


The phone number of the Brookhaven College Bookstore is 972-484-7651.

Students outside of Dallas County may order their books via web or telephone. Contact the Follett Company by pointing your browser at http://www.bhcdccd.bkstr.com or 972-484-7651. More information about ordering is available on the Dallas Telecollege Home.

You will need a computer that can access the internet.
**STUDENT EXPECTATIONS:**
Experiences in this course include:

- Reading assignments.
- Online attendance. Although this is not a traditional class with specific meetings at given times, your "attendance" is measured by the frequency and quality of your interactions with your instructors and, in some cases, other students through the completion of the participation project. For more information regarding the participation assignment in this course please see the Assignment Section.
- Homework assignments.
- Self-directed research using the Internet, followed by information sharing on occasion.
- Communicating via live chat, a newsgroup-type discussion board and E-Mail.
- Testing.

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<th>GRADING ELEMENTS:</th>
<th>FINAL GRADE VALUES:</th>
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<tr>
<td>Major Tests (4 total)</td>
<td>A 900 - above</td>
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<tr>
<td>Laboratory Assignments</td>
<td>B 800 - 899</td>
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**General Course Policies:**

1. This is not a self-paced class. Your work in this course should generally follow the Course Schedule, which includes due dates for assignments. Late assignments may be assessed a penalty of 1 point per day. Please contact your instructor in case of illness or an absence which will take you "off-line" for a period of time. He will be happy to work with you and make schedule adjustments if necessary.

2. You are always welcome to ask questions of your instructor, and are encouraged to do so. You may also hold discussions with other students as well but you are expected to do your assignments alone. This course is, after all, more about your learning programming than simply scoring a lot of points. You're only cheating yourself if you cheat.

3. You may not turn in an assignment more than one time for credit (i.e. Don't correct mistakes and re-submit). We will use the Assignment manager to submit assignments. Do not use the Digital Drop Box or email.

4. All tests are on-line and may be taken after they are posted. Your Course Schedule has test dates. You may not repeat a test for a higher grade.

5. You may use any material you desire to aid you in your test taking, but you may not work with another student, also test are timed. Different people get different versions of the tests, so it won't help you anyway.

6. Your instructor will hold periodic on-line chat sessions, typically once a week for an hour. During this time, you may discuss whatever you like with your instructor and other students present in the virtual classroom.

7. Your instructor will make every attempt to follow the general guidelines listed below to insure that you receive timely feedback when communicating. Times or days listed do not include...
weekends and holidays, and are the longest you may have to wait. In many cases you will actually get a response in less time.

- Student questions/comments/problems sent via E-Mail - reply within 48 hours
- Student questions/comments/problems sent via phone message - reply within 48 hours.
- Assignment submissions sent via email - grade posted within 7 days (after assignment due date).

8. All of your coursework must be completed by the last course day (as noted in the Course Schedule). Your instructor must submit your final course grade to the Brookhaven Registrar on the next day, so it will do you no good to submit work or take a test after that point.

9. Grades in the online gradebook are posted for your convenience and may not actual grade in the course. If you have questions regarding your grade please contact your instructor.

10. Coursework submitting without the proper header, name/date/assignment title, will not be graded and receive a zero in the gradebook.

Receiving Your Grades:
End-of-semester grades will not be mailed to you by the college. You may receive your grade through the Internet by using the following directions:

- Browse to the DCCCD eConnect web site.
- Click the Current Student Menu tab.
- Find the My Personal Information section.
- Click on Check My Grades (GPA).
- The system will then ask you to login, do so.
- Select Term – choose the correct semester.
- Select Grade Type (CR – Credit Grades).
- Click the SUBMIT button and your grades will display.

Americans with Disabilities Policy Statement:
If you feel the need for an academic adjustment due to any type of physical disability or learning difference, please contact Special Services at 972-860-4847 or visit the Disability Support Services web page for advisement and counseling. They will be happy to work with you.

Withdrawal with a "W":
If you are unable to complete this course, YOU must withdraw by the official drop date for this course, which is Month Day, Year. If you stop "attending" class and do not withdraw you will receive a performance grade, usually an "F".

STOP BEFORE YOU DROP!

For students who enrolled in college level courses for the first time since the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. Students often drop courses when help is available which would allow them to continue. Please feel free to discuss your plans with your instructor if you are considering a drop. If you still wish to drop, after having reviewed all of the above, you should:

- Browse to the DCCCD eConnect web site.
- Click the Current Credit Student Menu link.
- Click the Log In link.
- After logging in, find and click the Drop Classes link (look under the Register for Classes area).
**Notice for Students on Financial Aid:**
If you are receiving Financial Aid grants or loans, be aware that:
- Your participation in this course must begin on or before the official certification date.
- If you are failing the course, you must participate after the drop date.
- You must check with the Financial Aid Office prior to Dropping/Withdrawing this course.

Violation of any of these rules may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester.

**Incomplete ("I") Grading:**
Incompletes are only considered in those circumstances where a student has had a documentable crisis or emergency occurring sometime in the last several days of the course, preventing the student from completing the final few items of required work (a last Project or Exam, for example). The "I" is designed only to provide a little extra time to finish up, and is not granted to students who are substantially behind in their work as the end of the course approaches. It is not to be considered as a grade to request should you simply not have the time to get your work done during the semester.
If you feel you meet the qualifications for an "I" and would like to request one, contact your Instructor as soon as possible. Students who do not qualify for an "I" may not complete any coursework for credit after the final Absolute Deadline as shown in the Course Schedule.

**Repeating the Course:**
Each college of the DCCCD charges additional tuition to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and continuing education/workforce training courses will result in additional tuition being charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts included courses taken at any of the DCCCD colleges since the Fall 2002 semester.

**Academic Dishonesty:**
All work in this course is undertaken with the understanding that academic honesty is the only acceptable behavior for students. Further, it is understood that the Instructor sets the standards of academic honesty in this course, determines when those standards have been violated and determines the consequences of that behavior by the student.
Students are expected to do their coursework by themselves unless it is specifically noted that group work is allowed for a particular item. Violations of this rule are considered cheating and will be penalized. Cheating is defined as collusion, collaboration, providing assistance, access and use of material intended for Instructors only, viewing of another students’ work before or after submission for grading, file sharing, password sharing, fabrication, plagiarism, or copying from the Internet. None of these will be tolerated. Excuses such as "It was an accident" or "I didn't know we couldn't work together" will not relieve the student of penalties. There are no acceptable explanations for any of these behaviors.
For the first offense, a grade of 0 will be issued for the coursework in question. Students then failing to complete all further coursework on their own will receive a score of 0 for the entire related Course Component involved in the second offense.
Students often share a computer at home or in an office with another student or students who is/are also simultaneously enrolled in this course. Sharing a computer is permitted, provided:
If you work on the shared computer at a different time from the person(s) you are sharing the computer with
AND
You do not view the monitor while the other person(s) is/are working on the course
AND
You do not at anytime view any printouts or files of the person(s) you are sharing the computer with
AND
Your files are placed in separate folders or on separate storage media from the person(s) you are sharing the computer with. If you do not know how to do that, ask your Instructor.

All students in this course are expected to abide by the rules and regulations as set forth in both the DCCCD Student Code of Conduct. Failure to comply may result in legal and/or disciplinary action.

**Deadline Extensions for Religious Holidays:**
A student shall be granted an extension of any due date or deadline which coincides with the observance of a religious holy day, including travel for that purpose. A “religious holy day” means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code. Students must notify the instructor in writing or via E-mail of their intent to claim any extension. This notification must take place within 7 days of the published starting date of the course and must include the date(s) for which an extension is needed. The instructor will respond with an adjusted due date or deadline.

**The Family Educational Rights and Privacy Act (FERPA):** is a federal law that protects students. Also known as the Buckley Amendment, this law gives students four rights:

1. The right to inspect and review education records.
2. The right to seek the amendment of education records.
3. The right to consent to the disclosure of education records.
4. The right to file a complaint with the FERPA Office in Washington, D.C.

More information about this is available at the DCCCD web site

**Instructor Information:**
Instructor: Tri To
E-Mail: TriTo@dcccd.edu (best way to reach me)
Chat Hours: by appointment

**Please note:** The instructor reserves the right to modify any course requirements and calendar due dates as necessary to manage and conduct anytime during the semester. Students are responsible for contacting the instructor and seeking clarification of any requirement that is not understood.