Course Syllabus

Instructor: Ryan Garlick  
Office: Research Park F284 (The Crossroads and Sunset Blvd)  
Email: garlick@unt.edu  
Office Hours: Tues 2:30 – 4:00 or by appointment  
Web: http://www.cs.unt.edu/~garlick  
http://unt.instructure.com  
The class materials are available on Canvas


Topics

This course covers electronic commerce technology, models and issues, with emphasis on security. Supporting technology such as cryptography, digital signatures, certificates and public key infrastructure (PKI) and security-conscious programming for web-based applications are explored. Exposure is also given to interaction between technical issues and business, legal and ethical issues.

This course is online.

Prerequisites: CSCE 2100 and CSCE 2110. These pre-requisites are enforced.

Course Outcomes:

- Knowledge of and experience with secure web development, with exposure to at least three current technologies (such as XML, Perl, PHP, ASP, JSP, JavaScript, etc.)
- Evaluate how cryptography can be used to support confidentiality and integrity of electronic transmissions and transactions.
- Explain electronic transaction and payment systems.
- Determine electronic transaction and payment systems.
- Evaluate basic network and system security and a typical electronic commerce setting of networks and hosts.
- Explain business, legal, and ethical issues related to electronic commerce, and the interaction of these issues with technical issues.

Evaluation

There will be weekly quizzes and assignments and a midterm and final. The assignments are generally cumulative and result in the creation of a functional e-commerce site.

No late assignments of any kind are accepted and there are no deadline extensions. No exceptions.

Approximate Course Grading (subject to change)

<table>
<thead>
<tr>
<th></th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Midterm</td>
<td>15%</td>
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<tr>
<td>Quizzes / HW</td>
<td>70%</td>
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<tr>
<td>Final</td>
<td>15%</td>
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CSCE 4560 Secure e-Commerce

The final course grade will be based on the following scale:

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

Tentative Lecture Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction and Tools</td>
</tr>
<tr>
<td>2</td>
<td>html and css</td>
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<tr>
<td>3</td>
<td>javascript</td>
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<td>4</td>
<td>Databases and SQL</td>
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<td>5</td>
<td>PHP</td>
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<tr>
<td>6</td>
<td>Server Setup</td>
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<td>7</td>
<td>WooCommerce</td>
</tr>
<tr>
<td>8</td>
<td>Midterm</td>
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<tr>
<td>9</td>
<td>Spring Break</td>
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<tr>
<td>10</td>
<td>Security</td>
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<tr>
<td>11</td>
<td>Cryptography</td>
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<tr>
<td>12</td>
<td>SSL / TLS</td>
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<td>13</td>
<td>Frontend / Payment</td>
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<tr>
<td>14</td>
<td>OAUTH2</td>
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<tr>
<td>15</td>
<td>PHP Security</td>
</tr>
<tr>
<td>16</td>
<td>Final Exam</td>
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COURSE POLICIES

- The Department of Computer Science academic integrity policy will be followed. Any student caught cheating will receive an automatic F for the course and further disciplinary action may be taken. This will include those who violate the rules, as well as those who permit such actions.
- Students are expected to do their own work on homework/programming assignments. I encourage everyone in the class to discuss the assignments. However, any work/code turned in must be your own. Please do not share the quiz questions that you receive with your classmates.
- All exams including the final will be given only once. You will have several weeks of advance notice to take the midterm and final, and all exams must be completed by the due date or a grade of 0 will be assigned.
- Homework assignments must be turned in on time. No late assignments can be accepted.

QUALIFIED STUDENTS UNDER THE AMERICANS WITH DISABILITIES ACT OR SECTION 504 OF THE REHABILITATION ACT OF 1973

The College of Engineering cooperates with the Office of Disability Accommodation to make reasonable accommodations for qualified students with disabilities. If you have a disability for which you will require accommodation, please present your written accommodation request by the end of the first week and make an appointment with the instructor to discuss your needs.

ACADEMIC DISHONESTY

Academic dishonesty includes, but is not limited to, the use of any unauthorized assistance in taking quizzes, tests, or exams; dependence upon the aid of sources beyond those authorized by the instructor, the acquisition of tests or other material belonging to a faculty member, dual submission of a paper or project, resubmission of a paper or project to a different class without express permission from the instructors, or any other act designed to give a student an unfair advantage. Plagiarism includes the paraphrase or direct quotation of published or unpublished works without full
and clear acknowledgment of the author/source. Academic dishonesty will bring about disciplinary action which may include expulsion from the university. This is explained in the UNT Student Handbook.
FINAL EXAM POLICY

Final exams will be administered at the designated times during the final week of each long semester and during the specified day of each summer term. Please check the course calendar early in the semester to avoid any schedule conflicts.

ACCESS TO INFORMATION

As you know, your access point for business and academic services at UNT occurs within the my.unt.edu site www.my.unt.edu. If you do not regularly check Eagle Connect or link it to your favorite e-mail account, please do so, as this is where you learn about job and internship opportunities, CMHT events, scholarships, and other important information. The website that explains Eagle Connect and how to forward your email: http://eagleconnect.unt.edu/

COURSES IN A BOX

Any Hospitality and Tourism Management equivalent course from another university must receive prior approval from the CMHT academic advisor to insure that all UNT Hospitality and Tourism Management degree plan requirements are met. For example, courses that are taken online or from a program that offers course material via CD, booklet, or other manner of correspondence must have prior advisor approval. This includes “courses in a box” from other educational institutions (HMGT 4250, HMGT 4820, etc.). “Courses in a box” do not meet the UNT Hospitality and Tourism Management degree plan requirements and will not be approved.

IMPORTANT NOTICE FOR F-1 STUDENTS TAKING DISTANCE EDUCATION COURSES

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in multiple on-campus experiential components for this course. This component (which must be approved in advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student’s responsibility to do the following:

1. Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
2. Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Advising Office. The UNT International Advising Office has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, students should contact the UNT International Advising Office (telephone 940-565-2195 or email international@unt.edu) to get clarification before the one-week deadline.
EMERGENCY NOTIFICATION & PROCEDURES
UNT uses a system called Eagle Alert to quickly notify you with critical information in an event of emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). The system sends voice messages (and text messages upon permission) to the phones of all active faculty staff, and students. Please make certain to update your phone numbers at www.my.unt.edu. Some helpful emergency preparedness actions include: 1) ensuring you know the evacuation routes and severe weather shelter areas, determining how you will contact family and friends if phones are temporarily unavailable, and identifying where you will go if you need to evacuate the Denton area suddenly.