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COURSE NUMBER AND TITLE: BCIS 480/590 E-Commerce Security

OFFICE HOURS: Tuesday 3:45p.m. – 4:30 p.m. and by appointment.
My office is BC 233.

FACULTY'S NAME: Richard L. Oliver

TELEPHONE NUMBER: 646-2944

EMAIL ADDRESS: The **Instructor** in WebCT.

COURSE DESCRIPTION: Computer security is a critical part of business strategy. Companies are now demanding new levels of risk management, assessment, reporting, and protection. The ability to develop secure information systems from the ground up are valuable in today's market, producing more efficient, cost-effective and consumer-friendly programs. Topics include software design principles, symmetric encryption and public-key cryptography, as well as strategies to defend software against adversaries such as worms and hackers.

OFFICE HOURS AND LOCATION: This section of BCS502 is being offered as a distance education course. Therefore, the primary means of contact is through WebCT email. I will be reading and answering WebCT email several times a day. Please only use WebCT email as I will check that much more frequently than my regular email account. If needed, we can use the telephone and/or appointments to meet your needs.

LEARNING OBJECTIVES:

Foundational Knowledge: We will use the textbook as a means to survey the very broad field of computer based security and to begin the process of understanding what can be done to secure valuable information. In addition, we use the Internet as a source of current readings that bring current events into the perspective of this course.

Application Goals: We will use critical thinking, analysis and reading skills throughout this course. We will also work to develop skills of discovery in the vast amounts of information (data) that is available in a computing environment. We will use both deductive and inductive logic to reconstruct and construct paths from and to network nodes which might



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represent threats to our secured network. Finally, we will develop experience with industry standard tools used in the securing of a network.

Integration Goals: This class will utilize a wide variety of your computing skills that you have developed over your academic career. We will use network protocols, client/server computing, distributed and remote computing, logical inference and intermediate programming skills to understand and analyze actions and reactions in the network security milieu.

Human Dimension Goals: We will work in teams throughout the semester. This is a vital component in the study of network security since the breadth of concepts needed to truly understand network security is so large. You will both observe and participate in changing team dynamics and, with hard work and a little luck, celebration of your success in your role in your team's success!

Valuing Goals: I believe it to be vital for students to succeed in the activities in this course. You have proven you are good at learning foundational knowledge (you are juniors, seniors and graduate students!) and this class is about applying that knowledge as you will in the work place. I want you to enjoy some of that success now.

"Learning How to Learn" Goals: To do well and enjoy this class, you will need to take care to study the foundational knowledge as assigned and then to PRACTICE the skills on your own. This material is best learned by doing examples and challenging yourselves and your team mates. The scheduled is designed to present foundational knowledge in significant, but manageable blocks, and then reinforce your knowledge with lecture, discussion and practice (practice, practice).

Specifically, the students completing this course will be familiar with the fundamentals of ecommerce security including:

1. Planning for security and contingencies.
2. Security programs and models.
3. Risk assessment, management and protection.
4. Personnel, legal and ethical aspects of security management.

TEXTBOOKS:

Pfleeger, Charles P., and Plegger, Shari L. (2006), "Security in Computing", Prentice-Hall, Inc., Upper Saddle River, NJ. ISBN: 0-13-239077-9.



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TENTATIVE CALENDAR		
Date	Topic/Reading	Deliverables
Wednesday, January 14	Syllabus	
Friday, January 16	Read Chapter 1	
Monday, January 19		Research Quiz 1
Wednesday, January 21		Chapter Project 1
Friday, January 23		Lab Project 1
Monday, January 26	Read Chapter 2	
Wednesday, January 28		Research Quiz 2
Friday, January 30		Chapter Project 2
Monday, February 2		Lab Project 2
Wednesday, February 4	Read Chapter 3	
Friday, February 6		Research Quiz 3
Monday, February 9		Chapter Project 3
Wednesday, February 11		Lab Project 3
Friday, February 13	Read Chapter 4	
Monday, February 16		Research Quiz 4
Wednesday, February 18		Chapter Project 4
Friday, February 20		Lab Project 4
Monday, February 23	Read Chapter 5	
Wednesday, February 25		Research Quiz 5
Friday, February 27		Chapter Project 5
Monday, March 2		Lab Project 5
Wednesday, March 4	Examination 1	
Friday, March 6	Read Chapter 6	
Monday, March 9		Research Quiz 6
Wednesday, March 11		Chapter Project 6



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Friday, March 13		Lab Project 6
Monday, March 16	Read Chapter 7	
Wednesday, March 18		Research Quiz 7
Friday, March 20		Chapter Project 7.1
March 23 – March 27	Spring Break	
Monday, March 30		Lab Project 7
Wednesday, April 1	Read Chapter 7	
Friday, April 3		Research Quiz 8
Monday, April 6		Chapter Project 7.2
Wednesday, April 8		Lab Project 8
Friday, April 10		Chapter Project 7.3
Monday, April 13		Research Quiz 9
Wednesday, April 15		Chapter Project 7.4
Friday, April 17		Lab Project 9
Monday, April 20		Chapter Project 7.5
Wednesday, April 22		Research Quiz 10
Friday, April 24	Read Chapter 8	
Monday, April 27		Lab Project 10
Wednesday, April 29		Chapter Project 7.6
Monday, May 4	Examination 2	

ACADEMIC INTEGRITY: *Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. You should refer to page 3 of the Student Code of Conduct for detailed information regarding academic misconduct. (<http://www.nmsu.edu/~vpsa/handbook.html>)*



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PERFORMANCE AREAS: The grades will be determined by combining scores in three major performance areas: Laboratory Projects, Research Quizzes, Chapter Projects and Examinations. The relative weights of these performance areas toward the final grades are given below.

Performance Area	% Of Total
Lab Projects	20%
Research Quizzes	20%
Chapter Projects	20%
Examinations	40%
	100%

INCOMPLETE GRADES: A grade of "I" (Incomplete) will be assigned only in circumstances in agreement with the current NMSU *Undergraduate Catalog*. Incomplete grades are to be given only if a student has passed the first half of the course and is unable to complete the course due to circumstances beyond the student's control. (If the circumstances develop during the first half of the course, the student has the opportunity to drop the class.) Examples of appropriate circumstances are documented illness, documented death or crisis in the student's immediate family and similar circumstances. The catalog states that job related circumstances are generally not appropriate grounds for assigning an "I" grade and that this grade is not to be used to avoid a D, F, or U grade.

S/U GRADES: If you are taking this course under the S/U option, you must earn a "C" or better for an undergraduate and "B" or better for a graduate student to receive a grade of "S."

TEACHING METHODS: Important materials for this course are available in the textbook, course handouts and on the Internet. The student is encouraged to read the assigned materials by the dates indicated on the syllabus. The chapter readings from the textbook will give an excellent overview of the current state of the art in computer security and issues. The **Chapter Projects** will amplify important concepts found in the material and facilitate integration of these key concepts. The **Lab Projects** include targeted readings and hands-on exercises with one of the major issues in computer security. The **Research Quizzes** will facilitate potentially significant Internet research opportunities into security concepts. These quizzes reverse the normal procedure: normally, questions are asked after an assigned reading. In this course, questions will prompt locating relevant readings on the Internet. Twice during the semester, assessment will be done using open-book, open-note examinations. You are encouraged to use your book, notes, and/or the Internet while you are



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taking the examination. However, you will be asked to certify, at the completion of the examination, that you wrote the examination without collaboration of any type with other persons.

ATTENDANCE POLICY: Attendance is not required, however assignments must be submitted through the WebCT dropboxes as scheduled in the syllabus.

LATE/INCOMPLETE ASSIGNMENT POLICY: Projects can be submitted up to 24 hours late with a reduction of the maximum possible points by 20%. Projects not submitted by that time will not be accepted.

MAKE-UP ASSIGNMENT POLICY: No makeup examinations, quizzes, or projects are planned, but it is important to contact the instructor as soon as possible to discuss your grade computation should you have to miss work for health or family emergency reasons. If you are absent because you are on an official NMSU trip and you are unable to access WebCT, contact the instructor ahead of time or as soon as possible to determine makeup procedures. A University approved excuse will be required for an absence to be excused.

LIBRARY USAGE: Students will use the Internet frequently as an online library.

COMPUTER RESOURCES:

You will need access to the following computer resources:

- Connection to the University's WebCT server. This can be through a home connection (dialup, DSL, cable modem, etc.) or through computers in the University's computer labs. Go to <https://salsa.nmsu.edu> to connect to the WebCT server. This page also has links that will test your browser for compatibility with WebCT.
- You will need to submit assignments in the format as specified in each project. Most projects require MS Word.

GLOBAL/INTERNATIONAL BUSINESS CONTENT: This course will address many of the technologies that are used to conduct international business. In particular, we will examine the foremost technologies used in international exchange of business information.

ETHICS CONTENT: As appropriate, we will consider ethical issues related to the course content. Information is inherently valuable, and you may well be in professional positions to control access to this resource. I encourage you to consider these ethical issues thoughtfully.



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POLITICAL, SOCIAL, LEGAL, REGULATORY, ENVIRONMENTAL AND TECHNOLOGICAL CONTENT: A primary focus of this class is the use of today's technology to implement business systems in a global economy. Therefore, the technology of the Internet will be discussed daily.

ADA STATEMENT: STUDENTS WITH DISABILITIES

If you have (or believe you have) a disability and would benefit from classroom accommodation(s), please contact the Services or Students with Disabilities (SSD) Office located at Garcia Annex [Phone: 646-6840; TTY: 646-1918]. If you have a condition that may affect your ability to exit safely from the premises in an emergency or that may cause an emergency during class, you are encouraged to discuss any concerns with the Instructor.

Student Responsibilities:

1. Register with SSD and obtain accommodation documents early in the semester;
2. Deliver the completed accommodation and testing form(s) to the instructor(s) within the first two weeks of beginning of classes (or within one week of the date services are to commence);
3. Retrieve the signed form(s) from faculty and return to SSD within five (5) days of receipt from faculty and at least one week before any scheduled exam; and,
4. Contact the SSD Office if the services/accommodations requested are not being provided, not meeting your needs, or if additional accommodations are needed. Do not wait until you receive a failing grade. Retroactive accommodations cannot be considered.

Faculty Responsibilities:

1. Sign the *ACCOMMODATION REQUEST FORM* and *TESTING ACCOMMODATION FORM* (when presented), retain a copy, and return the original to the student within five (5) working days of receipt;
2. Contact SSD immediately if there are any questions or disputes regarding accommodation(s), disruptive behavior, etc.; and,
3. Refer the student to SSD for any additional accommodations.

Accommodations:

SSD Office, 646-6840 (Garcia Annex, Rm 102)
Michael Armendariz

Discrimination:

EEO/ADA & Employee Relations, 646-3333 (Hadley Hall, 15)



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Elva Telles

All medical information will be treated confidentially.

In the unlikely event that you wish to file a grievance with some administrative office or faculty member on campus, check the details of the process in the "General Information" section of the [Undergraduate Catalog](#). Probably the most urgent thing to know about a grade appeal (besides the fact that there is an appeals process) is that you must initiate the process by submitting a written appeal to the faculty member within 30 days of the start of the term following the term in which the grievance occurred. It's not clear whether this includes summer terms, so, to be safe, submit within 30 days of the grievance.

Many students have found that interning under the **cooperative education (CO-OP)** program is a valuable activity that sets them apart from students without practical experience. Contact the Co-op office in Garcia Annex (646-4115), visit with Celina Talamantes in the Advising Center in Guthrie Hall, and frequently check the NMSU web page links to the [placement and co-op offices](#). Also keep in mind that prime interviewing season for permanent positions is the fall. Whether you are graduating in December or May, register with Placement and interview diligently in your last fall semester.

