

**COURSE NUMBER AND TITLE:** BCIS 482 and BCIS 575: Management of Information Security

**FACULTY'S NAME:** Oliver, Richard L.

**OFFICE HOURS AND LOCATION:** Office Hours:  
M 3:00 pm – 4:00 pm  
T 5:00 pm – 6:00 pm  
W 3:00 pm – 4:00 pm  
And by appointment  
My office is BC 233.

**TELEPHONE NUMBER:** 646-2944

**E-MAIL ADDRESS:** The **Instructor** in WebCT.

**COURSE DESCRIPTION:** This course provides a management overview of information security and a thorough examination of the administration of information security. It will survey the field of information security including planning, policy and programs, protection and people relative to information security.

**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 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.
- **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:**

1. Dhillon, Gurpreet, *Principles of Information Systems Security*, John Wiley & Sons, ISBN 0471450561.

| <b>TENTATIVE CALENDAR</b> |                            |                                 |
|---------------------------|----------------------------|---------------------------------|
| <b>Date</b>               | <b>Topic/Reading</b>       | <b>Projects/Assessments</b>     |
| Monday, Aug 25            | Syllabus/Laboratory        |                                 |
| Wednesday, Aug 27         | Dhillon: Chapter 1         | Chapter 1 Quiz by 11:55 pm      |
| <b>Monday, Sept 1</b>     | <b>Labor Day Holiday</b>   |                                 |
| Wednesday, Sept 3         | Dhillon: Chapter 2         | Chapter 2 Quiz by 11:55 pm      |
| Monday, Sept 8            | Dhillon: Chapter 3         | Chapter 3 Quiz by 11:55 pm      |
| Wednesday, Sept 10        |                            | Case/Discussion due by 11:55 pm |
| Monday, Sept 15           | Dhillon: Chapter 4         | Chapter 4 Quiz by 11:55 pm      |
| Wednesday, Sept 17        |                            | Case/Discussion due by 11:55 pm |
| Monday, Sept 22           | Dhillon: Chapter 5         | Chapter 5 Quiz by 11:55 pm      |
| Wednesday, Sept 24        |                            | Case/Discussion due by 11:55 pm |
| Monday, Sept 29           | Dhillon: Chapter 6         | Chapter 6 Quiz by 11:55 pm      |
| Wednesday, Oct 1          |                            | Case/Discussion due by 11:55 pm |
| Monday, Oct 6             | Dhillon: Chapter 7         | Chapter 7 Quiz by 11:55 pm      |
| Wednesday, Oct 8          |                            | Case/Discussion due by 11:55 pm |
| Monday, Oct 13            | Dhillon: Chapter 8/Review  | Chapter 8 Quiz by 11:55 pm      |
| <b>Wednesday, Oct 15</b>  | <b>Examination 1</b>       |                                 |
| Monday, Oct 20            | Dhillon: Chapter 9         | Chapter 9 by 11:55 pm           |
| Wednesday, Oct 22         |                            | Case/Discussion due by 11:55 pm |
| Monday, Oct 27            | Dhillon: Chapter 10        | Chapter 10 Quiz by 11:55 pm     |
| Wednesday, Oct 29         |                            | Case/Discussion due by 11:55 pm |
| Monday, Nov 3             | Dhillon: Chapter 11        | Chapter 11 Quiz by 11:55 pm     |
| Wednesday, Nov 5          |                            | Case/Discussion due by 11:55 pm |
| Monday, Nov 10            | Dhillon: Chapter 12        | Chapter 12 Quiz by 11:55 pm     |
| Wednesday, Nov 12         |                            | Case/Discussion due by 11:55 pm |
| Monday, Nov 17            | Dhillon: Chapter 13        | Chapter 13 Quiz by 11:55 pm     |
| Wednesday, Nov 19         |                            |                                 |
| November 24-28            | November Break             |                                 |
| Wednesday, Dec 1          | Dhillon: Chapter 14        | Chapter 14 Quiz by 11:55 pm     |
| Monday, Dec 3             | Dhillon: Chapter 15        | Chapter 15 Quiz by 11:55 pm     |
| Wednesday, Dec 5          | Dhillon: Chapter 16/Review | Chapter 16 Quiz by 11:55 pm     |
| <b>Monday, Dec 8</b>      | <b>Examination 2</b>       | <b>4:00 pm – 5:15 pm</b>        |

## HOW YOUR LEARNING WILL BE MEASURED

Your understanding and ability to explain terminology, advanced information systems concepts, behavioral and organizational issues, international, social and ethical issues will be measured in the two regular examinations, the projects and the RATs.

## 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 ([http://www.nmsu.edu/~vpss/SCOC/student\\_hand\\_book.html](http://www.nmsu.edu/~vpss/SCOC/student_hand_book.html)) for detailed information regarding academic misconduct.*

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

| Performance Area | % Of Total |
|------------------|------------|
| Chapter Quizzes  | 10%        |
| Projects         | 30%        |
| Examinations     | <u>60%</u> |
|                  | 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 assigning 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:** The material in this course is available in the textbook. The student is encouraged to read the assigned readings by the date indicated on each of the chapter. Assessment will be done in two ways. First, each chapter will be the subject of an open-book, open-notes quiz. You should feel free to consult with the book, your study notes, the web and/or other students when you are completing these quizzes. Based upon the results of these chapter quizzes, the instructor will prepare a presentation of the key concepts. Students are encouraged to use these presentations as a guide to the significant concepts in each of the chapters. Additionally, a significant number of programming exercises will be assigned as learning tools for specific concepts in the course. Projects will be used for/by the student to demonstrate mastery of key concepts and skills. Twice during the semester, assessment will be done using (a) closed-book, closed-note examinations.

**ATTENDANCE POLICY:** Attendance is recommended, but not required. .

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

**MAKE-UP ASSIGNMENT POLICY:** There will be two examinations during the semester and chapter quizzes. No makeup quizzes will be given. However, the quizzes are available for the entire semester now, thus you need to consult the schedule and manage your time to complete the quizzes early. No makeup examinations are planned, but it is important to contact the instructor as soon as possible to discuss your grade computation should you have to miss an examination 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.
- The Network Vulnerability Laboratory on the 3<sup>rd</sup> floor of the Business Complex.

**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.

**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 using the Internet. 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)

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.

It will be the responsibility of the student to monitor their progress and decide if it is appropriate to withdraw from the class. I will not automatically disenroll students for persistent absences or persistent failure to complete assignments.

**PREREQUISITE:** a letter grade of "C" or better in BCS110 or equivalent.

**KEY DATES:**

|  |               |                |
|--|---------------|----------------|
| Residence halls open   | Sunday        | August 17      |
| Faculty report   | Monday        | August 18      |
| Fall convocation   | Tuesday       | August 19      |
| Instruction begins   | Thursday      | August 21      |
| Deadline for filing degree application<br>(students meeting requirements at end of fall) | Thursday      | August 21      |
| Late registration  | Tuesday       | August 26      |
| Labor Day holiday  | Monday        | September 1    |
| Deadline for registration/course addition  | Wednesday     | September 3    |
| Last day to drop with "W"<br>(except courses carrying designated dates)                  | Wednesday     | October 15     |
| Last day to withdraw from the university   | Friday        | November 14    |
| Thanksgiving holiday for students  | Monday-Friday | November 24-28 |
| EXAM WEEK  | Monday-Friday | December 8-12  |
| Last day of classes  | Friday        | December 12    |
| Commencement   | Saturday      | December 13    |
| Residence halls close  | Saturday      | December 13    |
| Final grades due   | Tuesday       | December 16    |