MIS 4700-001 (14583) 5700-001 (12137) IS Security

Instructor: Xiaodong Deng, Ph.D.	
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COURSE DESCRIPTION AND OBJECTIVES

This course addresses issues pertaining to ensuring the security of information systems in an organizational setting. Major topics covered include security policies and procedures, technology orientation, computer and network security, and managing organization securely. An emphasis is placed on the business dynamics, practical problems, and ethical dilemmas that face those who are concerned with information security. This course will involve exercises, problem solving, and a team project that will give students an opportunity to apply the concepts to practices. The course will be challenging and demanding of your time and efforts.

COURSE PREREQUISITES

MIS 5700: MIS 5240 (Former MIS 524).
MIS 4700: MIS 3000 (Former MIS 300) and MIS 3050 (Former MIS 305) with a minimum grade of 2.0 in each course.

COURSE MATERIALS

■ Required Textbook:
Peter H. Gregory, (2015). **CISSP Guide to Security Essentials**, 2nd Edition, Cengage Learning, Boston, MA. ISBN-10: 1-285-06042-3; ISBN-13: 978-1-285-06042-2

■ Additional Resources for Reference (not required for the course):
1). Schneier, Bruce (2012). **Liars and Outliers: Enabling the Trust that Society Needs to Thrive.** John Wiley & Sons, Indianapolis, IN. ISBN-13: 978-1118143308.
2). Mitnick, Kevin D. & Simon, William L. (2002). **The Art of Deception: Controlling the Human Element of Security.** John Wiley & Sons, Indianapolis, IN. ISBN-13: 978-0764542800.
3). Hadnagy, Christopher (2011). **Social Engineering: The Art of Human Hacking**. John Wiley & Sons, Indianapolis, IN. ISBN-13: 978-0470639535.

PERFORMANCE EVALUATION

Your performance in the course is evaluated from the following aspects.

Items	Percentages (MIS 5700)	Percentages (MIS 4700)
Class participation and exercises	10%	10%
Midterm Exam	30%	35%
Final Exam	30%	35%
Team Project	30%	20%
Total	**100%**	**100%**

The maximum absolute score that a student can receive in this class is 100 points. Your final numeric grade will be determined based on the following table. A student having **86.96%** in his/her score will receive 3.3 in final numeric grade.

Score	Grade	Score	Grade	Score	Grade	Score	Grade	Score	Grade	Score	Grade
98.00	4.0	89.00	3.5	80.00	3.0	75.00	2.5	70.00	2.0	65.00	1.5
96.00	3.9	*87.00*	*3.4*	79.00	2.9	74.00	2.4	69.00	1.9	64.00	1.4
94.00	3.8	*85.00*	*3.3*	78.00	2.8	73.00	2.3	68.00	1.8	63.00	1.3
92.00	3.7	83.00	3.2	77.00	2.7	72.00	2.2	67.00	1.7	62.00	1.2
90.00	3.6	81.00	3.1	76.00	2.6	71.00	2.1	66.00	1.6	61.00	1.1
										60.00	1.0

COURSE ADMINISTRATION

The lectures of this course will discuss the basic concepts and techniques about how to manage information securely for business. Questions are always welcomed. Email questions will be answered at the beginning of the next class if not earlier, depending on the nature of the questions.

Regular on-time attendance is expected. Class attendance will be checked as needed. In addition, all individual submissions (e.g., exercises, reports, or exams) will be used as the evidences of class attendance as well. Whenever required by the University, this record will be reported along with your final grade.

Your activities during the class should be strictly confined to the class-related activities. Activities such as playing games will be subject to the penalty for class participation. Making or answering calls in classroom is prohibited during the class.

CLASS PARTICIPATIONS AND EXERCISES

Active class participation is expected. Exercises will be open book and open notes. The formats of exercises can be multiple choices, filling in blanks, or problem solving. The contents will be the concepts or techniques covered in classes or the textbook, or the applications of these concepts and techniques. A lowest score (percentage wise) will be dropped when calculating the overall score for the portion of class participation and exercises. You are responsible for retaining all exercises evaluated for credits.

THE MIDTERM AND FINAL EXAMS

The exams will focus on the important concepts, as discussed in the class and the textbook, and the applications of these concepts to business situations. The final exam will not be cumulative. Any change to the exam date and time will not be accommodated and no make-ups will be offered for either midterm or final exam, except as allowed by Oakland University's academic policies or extreme circumstances as approved by the instructor. All make-up exams will be scheduled after the regular class exam.

THE TEAM PROJECT

See the Appendix.

LATE EXERCISE SUBMISSION AND MISSING CLASSES POLICY

Late submission is defined as the submission after the due date/time but before the class of the following week. Each student is allowed to have **two** late submissions to cover such special situations as sickness or job commitments. Additional late submissions will not be accepted.

If you are going to miss any class, please ask one of your classmates to turn in your assignments due, take notes for you, or pick up any class handouts or exercises for you. You can also check the class website for a highlight of the contents covered in the class.

ETHICS

Ethics here refers to the standards of conduct by which one's actions are judged right or wrong, honest or dishonest, fair or unfair. Please read and comply with the University's policy on academic conduct (i.e., ethical behavior). It is printed in the undergraduate and graduate catalogs. All policies and procedures outlined in the Oakland University (OU) student handbook apply to the activities (e.g., the individual exercises or report) in this class.

TENTATIVE CLASS SCHEDULE (please refer to the class website for any updates)

Week	Date	Topics	Ch.	Comments
1	Jan. 4	Introduction to the class		
2	Jan. 11	Information Security and Risk Management	1	
3	Jan. 18	Access Controls	2	Team information due via Moodle
4	Jan. 25	Software Development Security	3	
5	Feb. 1	Business Continuity and Disaster Recovery Planning	4	Finalized project idea due via Moodle
6	Feb. 8	Cryptography; Midterm Exam Review	5	
7	**Feb. 15**	**Midterm Exam, 6:30pm-9:20pm**	1-5	Scantron (Form No. 882-ES or 882-E)
8	**Feb. 22**	(**Winter recess, no class meeting**)		
9	Mar. 1	Legal, Regulations, Investigations, and Compliance	6	
10	Mar. 8	Security Operations	7	Progress report due via Moodle
11	Mar. 15	Physical and Environmental Security	8	
12	Mar. 22	Security Architecture and Design	9	
13	Mar. 29	Telecommunications and Network Security	10	
14	Apr. 5	Group Project Time		
15	Apr. 12	Group Project Presentations (about 20 minutes each); Final Exam Review; Peer evaluation form distributed		The PPT and the team project report due via Moodle **Sunday, April 15**
Thursday, April 19[*]	**Final Exam, 7:00pm-10:00pm;** Completed peer evaluation form with final exam		6-10	Scantron (Form No. 882-ES or 882-E)

[*] **R 6:30-9:00 PM Thursday April 19 7:00-10:00 PM (REGULAR FINAL EXAMINATION SCHEDULE WINTER 2018)**

Winter classes end 10 p.m. (Tuesday, April 17). STUDY DAY (Wednesday, April 18)

Grade Due (10:00am, Monday, April 30)

Whenever applicable, please refer to the descriptions below for your decisions.

"THAT, IN THE PREPARATION OF THE UNIVERSITY CALENDAR, EVERY REASONABLE EFFORT SHALL BE MADE TO AVOID CONFLICTS BETWEEN THE REGISTRATION AND FINAL EXAMINATION PERIODS AND RELIGIOUS HOLIDAYS LIKELY TO BE OBSERVED BY SUBSTANTIAL NUMBERS OF STUDENTS. WHEN SUCH CONFLICTS ARE UNAVOIDABLE BECAUSE OF OTHER SCHEDULE REQUIREMENTS ALTERNATIVE ARRANGEMENTS MAY BE MADE INFORMALLY OR STUDENTS MAY PETITION THE PROVOST IN WRITING FOR PERMISSION TO REGISTER OR TAKE THEIR EXAMINATIONS AT OTHER TIMES." April 13, 1971 minutes—University Senate