OUR LADY OF THE LAKE UNIVERSITY  
SCHOOL OF BUSINESS AND LEADERSHIP  
CISS 3361 SYLLABUS

COURSE NUMBER: CISS 3361  
TITLE: Information Assurance and Security

CATALOG DESCRIPTION: Survey of information assurance and security. Goals of confidentiality, integrity and availability. Comprehensive coverage of terminology specific to the study of information assurance. Identification of vulnerabilities and appropriate countermeasure. Legal and ethical issues in information security.

Prerequisites: CISS 1305 or 1310, and CISS 1341, 1342, and 2350.

STUDENT ACADEMIC OUTCOMES (What the student who successfully and satisfactorily completes the course should know or be able to do):

<table>
<thead>
<tr>
<th>Student Outcome</th>
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<tbody>
<tr>
<td>1. Understand the principles of information system security.</td>
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<tr>
<td>2. Apply the secure system development lifecycle and risk management processes to control risk to information systems.</td>
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<td>3. Perform information system security planning for organizations by synthesizing published guidance and academic literature.</td>
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<td>4. Select appropriate physical, administrative, and technical controls to mitigate risks to information systems.</td>
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<tr>
<td>5. Ethically search, locate, and use scholarly literature for research.</td>
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<thead>
<tr>
<th>SBL Student Learning Outcome(s) Assessed*</th>
<th>Activity(ies) Used**</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISA, CISF</td>
<td>A, B, C, D, E</td>
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<tr>
<td>CISA</td>
<td>A, B, C, D</td>
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<tr>
<td>CISA, CT</td>
<td>A, B, C, D</td>
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<tr>
<td>CISA</td>
<td>A, B, C, E</td>
</tr>
<tr>
<td>CISA, W, OC</td>
<td>A, B, E</td>
</tr>
</tbody>
</table>

* CT  Critical Thinking  
CV  Core Values  
IT  Interdisciplinary Thinking  
OC  Oral Communication  
SL  Service Learning  
TIL Technology and Information Literacy  
W  Writing  
ANAL  Analytical Skills (Quantitative or Qualitative)  
CISA  CISS Principles – Fundamental  
CISF  CISS Principles – Advanced  
MCUL  Multicultural Awareness  
PSLV  Problem Solving  
TEAM  Team Skills  

**Activities correspond to Means of Assessment Activities below.
MEANS OF ASSESSMENT (How the student’s achievement of the above academic outcomes will be evaluated):

<table>
<thead>
<tr>
<th>Activity</th>
<th>Weight in Final Grade</th>
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<tbody>
<tr>
<td>A. Homework</td>
<td>30%</td>
</tr>
<tr>
<td>B. Research Assignments</td>
<td>30%</td>
</tr>
<tr>
<td>C. Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>D. Mid-Term Exam</td>
<td>15%</td>
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<tr>
<td>E. Final Exam</td>
<td>15%</td>
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</table>

Total: 100%

SPECIAL REQUIREMENTS FOR “A” AND “B” GRADES (What the student must know or do over and above minimal content mastery to demonstrate excellent or high achievement):

A - 90% or greater course average, no late assignments, and at least an 85% average on all exams.
B - 80% to 89% course average, no late assignments, and at least a 75% average on all exams.

ASSOCIATION OF COLLEGIATE BUSINESS SCHOOLS AND PROGRAMS REQUIRED LEARNING RESOURCES (The student will be expected to use):

1. Essay and research papers are required to be submitted in word processing format.
2. Quantitative Techniques – none
3. Statistical Methods – none
4. Computer Software Applications – A browser, Microsoft Office

TECHNOLOGY ACCESS POLICY:

Students enrolling in this course must own or have access to a personal computer with current MS Windows/Office/Internet Explorer software and an Internet connection or be willing to travel to campus to use lab facilities to complete class assignments and projects.

ATTENDANCE POLICY:

Attendance Policy for Weekday courses: Regular and punctual attendance at all classes and laboratories is a requirement for all courses in the School of Business.

A student who has more than three unexcused absences from standard (1 hour, 15 min) class sessions may be withdrawn from the course by the instructor. Students should be aware that being dropped from a course may have serious implications for their financial aid packages.

Attendance Policy for Weekend courses: Please note that regular attendance is critical to your success in the Weekend program. Weekend College policy regarding attendance is:

Punctual attendance at each class and laboratory period is an obligation of the student. Absences will be allowed only under very special circumstances; the student is responsible for completing any class work missed and obtaining the assignment for the following class. Usually a weekend student will not be allowed to continue in a class in which s/he has missed five hours or more. Please be aware that the School of Business supports and enforces the Weekend College attendance policy.
A student missing five or more hours of class time is advised that s/he should not expect to be allowed to complete the course.

LATE EXAMS AND ASSIGNMENTS:

Due dates for all exams and assignments are shown in the course schedule at the end of this syllabus and on the class website in Lake Online. Exams and assignments must be COMPLETED by 11:00 pm on the due date. A 48 hour grace period is automatically granted for all exams and assignments, however exams and assignments completed after the due date will receive a letter grade deduction. Except for extreme circumstances, no extensions will be granted. Requests for extensions must be submitted prior to the scheduled due date.

POLICY ON INTELLECTUAL HONESTY:

Except for group or team assignments, papers, case analyses, projects, etc. are individual assignments and are part of the learning experience and must be completed personally by the student. Cheating on exams (including getting help on take-home exams) or copying another student's assignment (including computer programs and files) is plagiarism, which is grounds for failing the course and or expulsion from the University.

TOPICAL OUTLINE, BIBLIOGRAPHY, REQUIRED TEXTBOOK, AND GENERAL INFORMATION:

See attached Course Outline and Course Schedule.

__________________________  _________________________
Kevin A. Barton  01/03/2012
(Signature of instructor)  (Date)
OUR LADY OF THE LAKE UNIVERSITY
SCHOOL OF BUSINESS AND LEADERSHIP

COURSE OUTLINE
[Fall 2011]

Information Assurance & Security

Number: CISS 3361  Day(s): Tue
Classroom: Main 210  Time: 6:00 – 8:45 pm

INSTRUCTOR

Name: Mr. Kevin Barton  E-Mail: kabarton@ollusa.edu
Office Location: Main 302A  Fax Number: 210-434-0821 (OLLU)
Office Hours: M – W: 1:30 to 5:00 pm  Phone Number(s): Ext 2213

Mailing Address: Our Lady of the Lake University
School of Business and Leadership
411 SW 24th Street
San Antonio, TX 78207

Required Textbooks and Materials:
Technology. ISBN 9781423901778.

ADDITIONAL INFORMATION

Additional Readings and Resources:
Class and lecture notes, presentation slides, student data files, and handouts are posted on the
Lake Online web site for the course. The web site also contains additional learning resources the
student is expected to become familiar with and use on a regular basis. The syllabus contains
citations to required readings.

Exams/Test/quizzes:
This course includes quizzes and exams. Quizzes will assess your understanding of the course
material and will consist of multiple choice, short answer and fill-in-the-blank questions, as well
as practical exercises.

All tests and exams for this course are on-line at the course's Lake Online web site.
**Homework:**
Homework assignments will be available in Blackboard, and must be submitted in Blackboard. Unless otherwise stated, homework assignments must be submitted in a *single* Microsoft Word document. Do NOT submit multiple documents. A detailed schedule of projects and exercises will be posted in Blackboard. **Name all documents as follows:** *lastname_assignment*

**Required Readings:**


<table>
<thead>
<tr>
<th>Date</th>
<th>Reading &amp; Lab Assignments</th>
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| January 9 – January 15 | • **Review** syllabus, Lake Online orientation  
• **Read** Chapters:  
  1 *Introduction to Information Security*  
  Da Veiga & Eloff (2007)  
• **Homework Chapter 1** due Sunday, 1/15 |
| January 16 – January 22 | • **Read** Chapters:  
  2 *The Need for Security*  
  Johnson (2009)  
• **Homework Chapter 2** due Sunday, 1/22 |
| January 23 – January 29 | • **Read** Chapters:  
  3 *Legal, Ethical, and Professional Issues in Information Security*  
  Stevens (2010)  
  State security breach notification laws (2010)  
• **Quiz** Chapters 1, 2, & 3 Tuesday, 1/24  
• **Homework** Chapter 3 due Sunday, 1/29  
• **Research Assignment 1** due Sunday, 1/29 |
| January 30 – February 5 | • **Read** Chapters:  
  4 *Risk Management*  
  Chen, Kataria, & Krishna (2011)  
• **Homework** Chapter 4 due Sunday, 2/5 |
| February 6 – February 12 | • **Read** Chapters:  
  4 *Risk Management*  
• **Research Assignment 2** due Sunday, 2/12 |
| February 13 – February 19 | • **Read** Chapter:  
  5 *Planning for Security*  
• **Quiz** Chapters 4 & 5 Tuesday, 2/14  
• **Homework** Chapter 5 due Sunday, 2/19 |
| February 20 – February 26 | • **Read** Chapter:  
  9 *Physical Security*  
• **Homework** Chapter 9 due Sunday, 2/26 |
<table>
<thead>
<tr>
<th>Month</th>
<th>Events</th>
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| February 27 – March 4 | - **Read** Chapter:  
  10 *Implementing Information Security*  
  11 *Security and Personnel* (pp 471-473; 492-502)  
  *Son* (2011)  
  - **Homework** Chapters 10 & 11 due Sunday, 2/26  

| March 5 – March 11 | - **Midterm, Tuesday 3/6**, Chapters:  
  1 *Introduction to Information Security*  
  2 *The Need for Security*  
  3 *Legal, Ethical, and Professional Issues in Information Security*  
  4 *Risk Management*  
  5 *Planning for Security*  
  9 *Physical Security*  
  10 *Implementing Information Security*  
  11 *Security and Personnel*  
  - **Read** Chapters:  
  12 *Information Security Maintenance*  
  - **Homework** Chapter 12 due Sunday, 3/11  

| March 12 – March 18 | - **Mar 12-16: Spring Break**  

| March 19 – March 25 | - **Read** Chapters:  
  6 *Security Technology: Firewalls and VPNs*  
  - **Homework** Chapter 14 due Monday, 10/31  

| March 26 – April 1 | - **Read** Chapters:  
  6 *Security Technology: Firewalls and VPNs*  
  - **Research Assignment 3** due Sunday, 4/1  

| April 2 – April 8 | - **Easter Break: Apr 5-9**  
  - **Read** Chapters:  
  7 *Security Technology: Intrusion Detection, Access Control, and other Security Tools*  
  - **Homework** Chapter 7 due Sunday, 4/8  

| April 9 – April 15 | - **Student Presentations**  

| April 16 – April 22 | - **Read** Chapters:  
  8 *Cryptography*  
  - **Homework** Chapter 8 due Sunday, 4/22  
  - **Student Presentations**  

| April 23 – April 29 | - **Research Assignment 4** due Sunday, 4/29  

| May 1 | **Final Exam 7:30 – 9:30 PM**  
  - **Chapters:**  
  6 *Firewalls and VPNs*  
  7 *Intrusion Detection, Access Control, and Other Security Tools*  
  8 *Cryptography*  
  12 *Information Security Maintenance*  
  - **Research readings and skills will also be part of the Final Exam**