Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.
COURSE SYLLABUS
CSIS 344
INFORMATION SECURITY OPERATIONS

COURSE DESCRIPTION
This course will cover the issues and tasks involved in the day to day operation of an Information Security System. The topics included in this course would be: risk management, auditing and monitoring, regulations and compliance, disaster recovery, incidence response, key management, information systems hardware and software operation, networks and transmission security, operational security, and cryptography. (Formerly CSCI 352)

RATIONALE
In an Internet-centric world, organizations require business processes designed to protect critical or confidential information using cost-effective IT security methods and controls. This course will provide the student with the information and skills necessary to implement and maintain an effective information security program supporting business operations. To support effective information security program operations, the student will learn the operational concepts, principles, and activities of a security program as well as how to manage a program within an organization. The student will learn to consider the organization’s culture, business needs, processes, risk factors, and tolerance as well as regulatory compliance requirements when operating a security program.

I. PREREQUISITE
For information regarding prerequisites for this course, please refer to the Academic Course Catalog.

II. REQUIRED RESOURCE PURCHASE
Click on the following link to view the required resource(s) for the term in which you are registered: http://bookstore.mbsdirect.net/liberty.htm

III. ADDITIONAL MATERIALS FOR LEARNING
A. Computer with basic audio/video output equipment
B. Internet access (broadband recommended)
C. Microsoft Office

IV. MEASURABLE LEARNING OUTCOMES
Upon successful completion of this course, the student will be able to:
A. Describe the purpose, value, and requirements of an information security system in support of business operations.
B. Describe the industry best practices and current trends in technical and physical information security methods necessary to maintain the confidentiality, integrity, and availability of digital information at rest, in transit, and in use during business operations as part of an information security system.

C. Demonstrate the ability to institute information security systems operations using industry best practices as a part of business activities including risk analysis and management, regulatory compliance, business continuity, governing policy management, incident response actions, cryptographic infrastructure management, network security methods, operational security, and other information security systems practices.

D. Discuss the relevance and value of course material relative to a biblical worldview.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

A. Textbook readings and lecture presentations/notes

B. Course Requirements Checklist

After reading the Course Syllabus and Student Expectations, the student will complete the related checklist found in Module/Week 1.

C. Discussion Board Forums (6)

Discussion Boards are collaborative learning experiences. Therefore, the student is required to create a thread in response to the provided prompt for each forum. Each thread must be at least 300 words and demonstrate course-related knowledge. In addition to the thread, the student is required to reply to 2 other classmates’ threads. Each reply must be at least 100 words.

D. Article Reviews (2)

The student is required to provide a written review of the information found on the websites in the Reading & Study folder for the assigned module/week. Each Article Review must be a minimum of 750 words, be in current APA format, and demonstrate course-related knowledge with biblical implications.


As a case study, the student will conduct a risk assessment for an organization of his/her choosing. Based on the results of the assessment, the student will draft a disaster recovery plan (DRP) and an incident response plan as part of an information security program. To that end, the student will submit for approval a topical outline and a topic proposal that will be used toward the requirements of the Research Paper – Final. The outline must be at least 3 tiers and must include at least 1 reference in addition to the course textbooks and the Bible. The topic proposal must be at least 250 words.

F. Case Study

For the Case Study, the student will conduct a risk assessment for an organization of his/her choosing. He/she will write a research-based paper of at least 1,000
words in current APA format. The paper will report the result of the risk assessment in support of implementing an Information Security program or improving the program the organization already has in place. The paper must include at least 5 references in addition to the course textbooks, the Bible, and the resource(s) used in the Research Paper – Topic Proposal/Outline. The information from the Case Study must be incorporated into the Research Paper – Final.

G. Research Paper – Final

The student will write a research-based paper of at least 2,000 words in current APA format. The paper must focus on the implementation and operation of the disaster recovery plan (DRP) and incident response team (IRT) portions of an Information Security Program in relation to the risk assessment conducted by the student in the Case Study assignment. The paper must include at least 5 references in addition to the course textbooks, the Bible, and the resources used in the Research Paper – Topic Proposal/Outline and in the Case Study.

H. Quizzes (2)

Each quiz will cover the Reading & Study material for the modules/weeks in which it is assigned. Each quiz will: be open-book/open-notes; contain 50 multiple-choice, true/false, and essay questions; and have a 1-hour time limit.

VI. COURSE GrADING AND POLICIES

A. Points

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Requirements Checklist</td>
<td>10</td>
</tr>
<tr>
<td>Discussion Board Forums (6 at 50 pts ea)</td>
<td>300</td>
</tr>
<tr>
<td>Article Reviews (2 at 100 pts ea)</td>
<td>200</td>
</tr>
<tr>
<td>Research Paper – Topic Proposal/Outline</td>
<td>50</td>
</tr>
<tr>
<td>Case Study</td>
<td>100</td>
</tr>
<tr>
<td>Research Paper – Final</td>
<td>200</td>
</tr>
<tr>
<td>Quiz 1 (Modules 1–4)</td>
<td>75</td>
</tr>
<tr>
<td>Quiz 2 (Modules 5–7)</td>
<td>75</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1010</strong></td>
</tr>
</tbody>
</table>

B. Scale

A = 900–1010   B = 800–899   C = 700–799   D = 600–699   F = 0–599

C. Late Assignment Policy

If the student is unable to complete an assignment on time, then he or she must contact the instructor immediately by email.

Assignments that are submitted after the due date without prior approval from the instructor will receive the following deductions:

1. Late assignments submitted within one week of the due date will receive a 10% deduction.
2. Assignments submitted more than one week late will receive a 20% deduction.
3. Assignments submitted two weeks late or after the final date of the course will not be accepted.

4. Late Discussion Board threads or replies will not be accepted.

Special circumstances (e.g., death in the family, personal health issues) will be reviewed by the instructor on a case-by-case basis.

D. Disability Assistance

Students with a documented disability may contact Liberty University Online’s Office of Disability Academic Support (ODAS) at LUODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at www.liberty.edu/disabilitysupport.
## COURSE SCHEDULE

### CSIS 344

Textbooks:  

<table>
<thead>
<tr>
<th>MODULE/WEEK</th>
<th>READING &amp; STUDY</th>
<th>ASSIGNMENTS</th>
<th>POINTS</th>
</tr>
</thead>
</table>
| 1           | 1 presentation  
1 website   | Course Requirements Checklist  
Class Introductions  
DB Forum 1 | 10  
0  
50 |
| 2           | Kim & Solomon: chs. 1–3  
1 presentation  
4 websites | DB Forum 2  
Article Review 1 | 50  
100 |
| 3           | Johnson & Merkow: chs. 1–2  
Kim & Solomon: ch. 4  
PMI: chs. 1–2  
1 presentation  
2 websites | DB Forum 3  
Research Paper – Topic Proposal/Outline | 50  
50 |
| 4           | Johnson & Merkow: chs. 6, 8  
Kim & Solomon: chs. 5–8  
1 presentation  
2 websites | DB Forum 4  
Quiz 1 | 50  
75 |
| 5           | Kim & Solomon: chs. 9–11  
1 presentation  
2 websites | Case Study | 100 |
| 6           | Johnson & Merkow: ch. 12  
Kim & Solomon: ch. 12  
1 presentation  
4 websites | DB Forum 5  
Article Review 2 | 50  
100 |
| 7           | Kim & Solomon: chs. 13–15  
1 presentation  
4 websites | DB Forum 6  
Quiz 2 | 50  
75 |
| 8           | Review previous readings  
1 presentation | Research Paper – Final | 200 |

**TOTAL** 1010

DB = Discussion Board  
PMI = Project Management Institute

**NOTE:** Each course module/week (except Module/Week 1) begins on Tuesday morning at 12:00 a.m. (ET) and ends on Monday night at 11:59 p.m. (ET). The final module/week ends at 11:59 p.m. (ET) on **Friday**.