Information Security and Risk Management
CIS345 | 3.0 Credit Hours | Fall 2019  Instructor: Kenneth Shemroske

Office Hours: (please make an appt. with me via email)
Email: k.shemroske@usi.edu
Phone: 812-228-5072
Office Number: BE2045

Course Description
An intermediate level course providing in-depth coverage of the motivations, architectures, and implementations of security-related policies, technologies, and practices to better protect information systems against possible threat.

Prerequisites: CIS367 – Data Communications is a prerequisite/co-requisite for this course. You should have taken or currently be taking this course.

Course Learning Objectives
Upon completion of this course, you should be able to:

• Understand and be able to articulate the principles of information security
• Be able to identify, describe, and recommend tools and best practices related to protecting information resources.
• Understand and quantify risks related to information security and describe opportunities for mitigation of those risks.

Communication Guidelines
• Netiquette
  All class communications and interactions with other students and the professor should follow common social standards for respect and courtesy. Learn about the USI Netiquette Guidelines for Online Students so that you can get the most out of your class.

• Communication Expectation
  There are several methods of communication, which you will find useful when you have questions or other communication needs concerning this course.

  o Appointments: I am always happy to meet and talk with you ‘one on one’. Please use email to set up an appointment to be sure we are both in the same place at the same time.
  o Email: I check emails periodically throughout the day and respond as soon as I have all information required to do so. Due to FERPA compliance requirements, you must use your USI email for communications regarding this course.
  o Discussion Board: The primary purpose of the discussion board is for communication with your classmates. I will check the discussion board periodically and offer help there if it is appropriate, but I will not check this as frequently as I do my email. Please use this to refer to or get help from the class as a whole.

Grades for your submissions will be posted in Blackboard as soon as I am able to complete evaluations of your work.
Blackboard Course Site Overview (MindTap Integration)

- The Blackboard site for this course is set up in a way to make the deliverables of this course as straightforward as possible. You will see a ‘Start Here’ menu item, which gives you access to all the preliminary information you will need to get started with the course.
- You will have a ‘Modules’ menu item which is used to organize content and deliverables that are not in MindTap.
- You will also see a menu item for ‘Mindtap’. This takes you to online content (e-book) and learning assessments which will be required for this course. Mindtap is set up in ‘units’ which correspond to the material covered in the text. Grades from activities that are performed in Mindtap will show up in your Blackboard grade book.
- VoiceThread videos are used to deliver instructional content for this course. If you are having trouble with VoiceThread videos or assignments, please check the online learning resources https://www.usi.edu/onlinelearning/students/voicethread/ or contact the USI helpdesk http://www.usi.edu/it/help-desk
- There are other links below to help you with IT issues or operational policies. Please make a note of these.

Course Requirements

- Textbooks and/or Course Materials (you have two options here, choose one)
  - An online version of the textbook is included in the Mindtap access. If you are okay with no hardcopy of the text, you can opt for the Mindtap access only. ISBN: 9781337289313
- Technical Requirements
  - A Reliable Computer: a dedicated computer with an updated operating system. For this course, you will need access to a computer running a Microsoft Windows operating system. Preferably Windows 7 or later. If you are unable to provide one for yourself, but do have access to the USI campus for the duration of this course, you may use the lab computers in the business college or the library.
  - High-Speed Internet Connection: (e.g. DSL or Cable). When working online, students are required to have a stable high-speed Internet connection. A wired Internet connection is recommended for online meeting, exams, and assignment submission.
  - Office 365 (USI login needed) & Adobe Acrobat Reader installed.
  - Supported Web Browser: Firefox, Google Chrome, or Safari.

Minimum Technical Skills

To successfully navigate and perform in this course you should be able to:
- Use a MS Windows computer
- Install software on a MS Windows computer
- Navigate Blackboard
- Have a basic understanding of computer networking technology

Assessments

- VoiceThread Videos – 3 points per video
This point value is intentionally small. It is more intended to motivate you to watch the videos than anything else. They will add up over the course of the semester but should not hurt your grade if you miss a few of them. Watch the videos anyway, they are designed to help your understanding!

- MindTap exercises – variable point values
- Exams – 150 points each – there will be three exams

**Grading Scale**

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<tr>
<th></th>
<th>A</th>
<th>B+</th>
<th>B</th>
<th>C+</th>
<th>C</th>
<th>D+</th>
<th>D</th>
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<tbody>
<tr>
<td>Percentage</td>
<td>90-100%</td>
<td>86-89.9%</td>
<td>80-85.9%</td>
<td>76-79.9%</td>
<td>70-75.9%</td>
<td>66-69.9%</td>
<td>60-65.9%</td>
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**Course & University Policies**

**Late Assignment Policy**

**Late assignments are NOT accepted for any reason.** To keep things fair to everyone, you are all given the same amount of time to complete and submit assignments. Due to the accelerated nature of this course, deliverables will be due every few days. To be successful in your efforts with this course, it will be imperative that you keep pace with the schedule.

**Academic Integrity**

Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty including, but not limited to, plagiarism and/or cheating on an examination will be subject to disciplinary action. For more information, please visit [http://www.usi.edu/media/5599778/academic-integrity-policies-and-procedures-fall-2016.pdf](http://www.usi.edu/media/5599778/academic-integrity-policies-and-procedures-fall-2016.pdf).

**Diversity Issues**

The pursuit of an intellectually open setting for class discussions is one of the goals of the course. Students should feel free to articulate respectfully different perceptions of the social world; however, belittling, abusive, and discriminatory language will not be tolerated under any circumstances. For more information, please visit [http://www.usi.edu/policies/handbook/civil-rights-sexual-misconduct](http://www.usi.edu/policies/handbook/civil-rights-sexual-misconduct).

**Disability Statement**

If you have a disability for which you may require academic accommodations for this class, please contact Disability Resources at 812-464-1961 or email Ronda Stone at rstone@usi.edu as soon as possible. Students who are approved for accommodations by Disability Resources should request their accommodation letter be sent to their online instructors. Due to the nature of online courses, some accommodations approved for on campus courses may not apply. Please discuss this with Disability Resources to clarify as needed.

Students who receive an accommodation letter from Disability Resources are encouraged to discuss the provisions of those accommodations with their professors before or during the first week of the semester. If you will be in an internship, field, clinical, student teaching, or other off-campus setting this semester please note that approved academic accommodations may not apply. Please contact Disability Resources as soon as possible to discuss accommodations needed for access while in this setting. For more information, please visit the Disability Resources website at [www.usi.edu/disabilities](http://www.usi.edu/disabilities).

**Class Withdrawal & Incomplete Policy**

It is the student’s responsibility to officially drop/withdraw from any courses before the deadline. The university does not withdraw students from any classes. Please refer to the USI Academic Calendar ([https://www.usi.edu/registrar/academic-calendar](https://www.usi.edu/registrar/academic-calendar)) for specific dates. For more information, please visit [https://www.usi.edu/registrar/schedule-changes/](https://www.usi.edu/registrar/schedule-changes/)

Under special circumstances, students may petition for an incomplete grade. However, it is up to the course
instructor to decide if an incomplete will be granted. Students receiving an incomplete grade will need to complete all course requirements by the agreed deadline to avoid an “F” grade.

**Title IX, Sexual Assault and Gender Violence Policy**

USI does not tolerate acts of sexual misconduct, including sexual harassment and all forms of sexual violence. If you have experienced sexual misconduct, or know someone who has, the University can help. It is important to know that federal regulations and University policy require faculty to promptly report incidences of potential sexual misconduct known to them to the Title IX Coordinator to ensure that appropriate measures are taken and resources are made available. The University will work with you to protect your privacy by sharing information with only those who need to know to ensure we can respond and assist. If you are seeking help and would like to speak to someone confidentially, you can make an appointment with a counselor in the University Counseling Center. Find more information about sexual violence, including campus and community resources at [www.usi.edu/stopsexualassault](http://www.usi.edu/stopsexualassault)

**Technical Support**

**Help Desk Support**

Since your professors are not trained as technology experts, they will not be able to assist you with your technical needs. Please contact the Help Desk at (812) 465-1080 or send an email to it@usi.edu for technical support. To learn more about the USI helpdesk, please visit [http://www.usi.edu/it/help-desk](http://www.usi.edu/it/help-desk)

- **Blackboard Support**
  
  If you would like to speak to a support technician, you can call (812) 465-1080 during normal USI business hours (8am-4:30pm, Monday-Friday). Click on the following link for more FAQ about Blackboard
  [http://www.usi.edu/it/blackboard-online-help/faq-for-students](http://www.usi.edu/it/blackboard-online-help/faq-for-students)

**Privacy Policies & Accessibility Statements**

For detailed information about the privacy policies and accessibility statements of the course technologies, please visit [http://usi.edu/onlinelearning/students/support-services/](http://usi.edu/onlinelearning/students/support-services/)

**Academic Support Services**

- **The Writing Lab**
  The Writers' Room serves as a resource for undergraduate writers by providing assistance from peer writing consultants, a comfortable writing environment, and reference materials.
  [http://www.usi.edu/university-division/academic-skills/tutoring/writers-room](http://www.usi.edu/university-division/academic-skills/tutoring/writers-room)

- **How to Cite Sources (APA, MLA, Chicago, Turabian, etc.)**
  [http://usi.libguides.com/citingsources](http://usi.libguides.com/citingsources)

- **David L. Rice Library Assistance**
  [http://www.usi.edu/library/services-for-students](http://www.usi.edu/library/services-for-students)

- **Research Guides**
  Research assistance, subject guides, and useful resources compiled by your friendly librarians.

- **Counseling Center**
  The Counseling Center is open every Monday through Friday from 8:00 am to 4:30 pm. You’ll find the Counseling Center in the Orr Center, Room 1051; their phone number is 812/464-1867
  [http://www.usi.edu/counselingcenter/](http://www.usi.edu/counselingcenter/)

- **Disability, and ADA Support**
  [http://www.usi.edu/university-division/disabilities](http://www.usi.edu/university-division/disabilities)
• **Student Grievances**  
  [https://www.usi.edu/media/3402299/Grievance-and-Complaints-Procedures.pdf](https://www.usi.edu/media/3402299/Grievance-and-Complaints-Procedures.pdf)

• **Additional Student Resources**
  The university provides a comprehensive range of support services and activities for students. Please refer to [http://www.usi.edu/students/](http://www.usi.edu/students/) for detailed information regarding academic advising, registration, financial aid, student affairs, counseling, career services, etc.

• **University Health Center**-The University Health Center is a full-service clinic offering medical services and health-related information to students, faculty, and staff. It is located in the lower level of the Health Professions Center and is open Monday through Friday, 8 am to 4:30 pm. Click on this link to learn more about the Health Services offered at USI, or to make an appointment, please call 812/465-1250. [http://www.usi.edu/healthcenter](http://www.usi.edu/healthcenter).

• **Financial Aid Office**- Information about current or future financial aid (including the implications of withdrawal from courses) can be obtained from the University Financial Aid Office. The office open is every Monday through Friday from 8:00 am to 4:30 pm; phone 812/464-1767, or email them at finaid@usi.edu

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**CIS345 Course Calendar (subject to change as needed)**

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<thead>
<tr>
<th>Day</th>
<th>Event</th>
<th>Chapters</th>
<th>Deliverables Due</th>
<th>Topics</th>
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<tbody>
<tr>
<td>20-Aug</td>
<td>Module 1</td>
<td>Chapter 1</td>
<td>25-Aug</td>
<td>Introduction to Security; Vulnerability and Risk Assessment</td>
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<td>22-Aug</td>
<td></td>
<td>Chapter 13</td>
<td>1-Sep</td>
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<td>27-Aug</td>
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<td>Chapter 15</td>
<td>8-Sep</td>
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<td>29-Aug</td>
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<td>Chapter 13</td>
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<td>Chapter 15</td>
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<td>10-Sep</td>
<td>Module 2</td>
<td>Chapter 2</td>
<td>15-Sep</td>
<td>Malware; Cryptography</td>
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<td>22-Sep</td>
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<tr>
<td>1-Oct</td>
<td>Module 3</td>
<td>Chapter 5</td>
<td>6-Oct</td>
<td>Exam 1 - 48 hr window 9/30 - 10/1</td>
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<td>3-Oct</td>
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<td>Chapter 6</td>
<td>13-Oct</td>
<td>Network Attacks and Defenses</td>
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<td>Chapter 7</td>
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<td>Module 4</td>
<td>Chapter 9</td>
<td>3-Nov</td>
<td>Exam 2 - 48 hr window 10/28 - 10/29</td>
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<td>31-Oct</td>
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<td>Chapter 10</td>
<td>10-Nov</td>
<td>Device Security; Identity Management; Access Control</td>
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<td>24-Nov</td>
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<td>Chapter 12</td>
<td>24-Nov</td>
<td>Thanksgiving Break</td>
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<td>3-Dec</td>
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<td>Chapter 12</td>
<td>24-Nov</td>
<td>Final Exam - 48 hr window 12/2 - 12/3</td>
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