Cybersecurity Assessment and Network Defense
CIS346 | 3.0 Credit Hours | Spring 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 advanced cyber security course, which addresses skills needed to assess an organization’s security profile and prescribe solutions for a strong network defense. Students will study concepts, tools, and techniques used to audit an organization for cyber security threats. Students will also study responses to these threats through concepts, tools, and techniques associated with defending a data communications network.

Prerequisite: CIS345

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

• Understand and be able to articulate advanced principles of computer network vulnerabilities (from hacking threats) and defenses against such threats.

• Be able to articulate the need for, purpose of, and context for ethical hacking (white hat hacking) and demonstrate familiarity with ethical hacking tools.

• Be able to list numerous methods for evaluating a computer network’s security stance and demonstrate abilities using tools to which facilitate this evaluation.

• Understand and identify the different types of network clients, their specific vulnerabilities, and demonstrate abilities with tools/procedures for hardening network clients.

• Understand and articulate additional security complexities related to wireless networks and demonstrate abilities related to securing against these complexities.

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 **In Class:** Class time is multipurpose. If you have questions about the content, structure, or progress of this course, feel free to bring them up in class.

  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.
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**
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.

**Course Requirements**
- **Textbooks and/or Course Materials**
- **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**
- Chapter activities are typically worth 25 points each but there may be exceptions. You should be aware of the value of each activity and be aware of activities which count toward your grade, which means these will be evaluated and included in your final grade calculation.
- Integrated Knowledge Exercises – 100 points each - These will vary depending on the Unit and the time available. These will be evidence based writing assignments (See your notes on evidence based writing from the first few lectures in class)
- Exams – 150 points each – there will be three exams

**Grading Scale**

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<th>A</th>
<th>B+</th>
<th>B</th>
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<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>
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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.

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.

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 rfstone@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.

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) for specific dates. For more information, please visit 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.
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
  o 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.

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/

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

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

• David L. Rice Library Assistance
  http://www.usi.edu/library/services-for-students

• Research Guides
  Research assistance, subject guides, and useful resources compiled by your friendly librarians.
  http://usi.libguides.com/

• 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/

• Disability, and ADA Support
  http://www.usi.edu/university-division/disabilities

• Student Grievances
  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/ 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.
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 is open every Monday through Friday from 8:00 am to 4:30 pm; phone 812/464-1767, or email them at finaid@usi.edu

CIS346 Course Calendar (*subject to change as needed)

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<tr>
<th>Class Days</th>
<th>Events</th>
<th>Content</th>
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<td>8-Jan</td>
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<td>Course intro, Semester Prep, Writing</td>
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