Information Security
IS41315 – 001
(124743)
Thursday 6:00PM – 9:50PM
Location: Linder 220
(02/26/2018 to 04/21/2018)

Instructor: Bogdan Vykhovanyuk, a.k.a. “Bo”
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E-Mail: vykhovbn@uc.edu
Office Hours: Office hours by appointment
Office: University Hall Suite 400
Textbook: Not required. Links to relevant materials will be provided, and available online.

Objective:

The objective of this course is to provide a basic understanding of the information security function within an organization. Upon completion of this course you should be able to:

• Explain the scope and responsibility of an information security program.
• Identify and prioritize threats to information assets.
• Define an information security strategy and architecture.
• Plan for and respond to intruders into an information system.
• Prepare a disaster recovery plan for recovery of information assets after an incident.

Course Description:

This course is an overview of the field of Information Security, Privacy, and Assurance. It introduces students to the key issues associated with protecting information assets, determining levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. Topics covered in the course include: inspection and protection of information assets, detection of and reaction to threats to information assets, pre- and post-incident procedures, technical and managerial responses, and an overview of the Information Security Planning and Staffing functions.

Class Guidelines:

• Class attendance is expected, but not required. Some materials covered in class may not be straightforward in the cited materials or not fully covered in the provided materials.
• If you choose not to attend class, you are still responsible for lab submissions and quizzes prior to specified deadline.
• Participation includes questions for further explanation, attempting to answer questions posed, Canopy/Blackboard Discussion board posts and comments from your own experience. If you decide not to attend classes, please make sure to start a relevant information security/privacy/compliance/assurance/management discussion thread in Canopy/Blackboard and/or comment on others. This way you can still obtain participation credit.
• Check Canopy/Blackboard for your grades to make sure there are no mistakes or missing grades. Also check Canopy/Blackboard for course announcements and assignments.
Labs:

- Labs will be available each week (usually I will post them during class) and due by EOD the following Thursday. Time will be allotted during the class to complete labs. However, feel free to work on and submit those anytime, from anywhere before the due date. Laptops may be required for labs. Group work on labs is encouraged (please keep groups under 3-4 people). However, everyone is responsible for submitting their lab in Canopy/Blackboard for grading purposes.
- **Late assignments will be accepted at one grade point deduction for every day late.** Assignments will only be accepted via the Assignments section on Canopy/Blackboard.

Group Project/Presentation:

- The class will be divided in approximately 10 groups (randomly selected by instructor). All groups will be given a research topic to examine and present on. More details will be provided during the second or third week.
- Students will grade presentation of each group. Also, individual group members will rate their peers based on participation/involvement.

Exams/Quizzes:

- Final exam will be posted on Canopy/Blackboard during a designated time period. If you miss a quiz or an exam, contact (prior to exam, if at all possible) the instructor. Quizzes will stay open for at least 2 days.
- If you are unsure what is being asked during an exam or quiz, let the instructor know!
- Written exams may be given and will cover all material from online lecture slides and notes, labs, and other materials and consist of objective and short answer questions.
- Studying for exams with others will help you learn the material. Another strategy for studying includes coming up with potential test questions on your own then making sure you can answer them.
- Final exam and quizzes are open-note but prepare for them as though they were not. Time limits will be imposed.

Code of Conduct:

As with all Lindner College of Business efforts, this course will uphold the highest ethical standards, critical to building character (the C in PACE). Ensuring your integrity is vital and your responsibility. LCB instructors are required to report ANY incident of academic misconduct (e.g., cheating, plagiarism) to the college review process, which could result in severe consequences, including potential dismissal from the college.

By your participation in this class, you acknowledge that you have read and understood the University of Cincinnati Student Code of Conduct [http://www.uc.edu/conduct/Code_of_Conduct.html] and agree to abide by it.
Withdrawal Deadline:

http://www.uc.edu/registrar/policies_and_procedures/add_drop_withdrawal.html
http://www.uc.edu/content/dam/uc/registrar/docs/calendars/spring_2018_dates_deadlines.pdf

Special Needs:

If you have any special needs related to your participation in this course, including identified visual impairment, hearing impairment, physical impairment, communication disorder, and/or specific learning disability, you should meet with the instructor to arrange for reasonable provisions to ensure an equitable opportunity to meet all the requirements of this course. Disability Services Office can be helpful in identifying such needs and suggesting accommodations.

Grading Scheme:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Quizzes (x4)</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Labs (x4)</td>
<td>24%</td>
</tr>
<tr>
<td>Group Project/Presentations</td>
<td>25%</td>
</tr>
<tr>
<td>Participation</td>
<td>11%</td>
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</tbody>
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Please do not hesitate to contact me if you have any questions, problems or concerns.

Details regarding class assignments, projects and quizzes will be discussed in class. This course will require a great deal of reading due to the amount of information we are covering. My goal is for you to learn, succeed and enjoy this course so please reach out to me if something comes up.

Inclement Weather:

If the university is closed, I may still require completion of labs and quizzes from a comfort of your home. Just stay put for Canopy/Blackboard announcements.

Tentative Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>#1</td>
<td>03/01/2018</td>
<td>Intro, Information Security Overview, Fundamentals of Network Security</td>
</tr>
<tr>
<td>#2</td>
<td>03/08/2018</td>
<td>Fundamental of Network Security (cont.); May be start Week 4; Lab 1; Quiz 1</td>
</tr>
<tr>
<td>#3</td>
<td>03/15/2018</td>
<td>Party Time – Stay Safe – Spring Break</td>
</tr>
<tr>
<td>#4</td>
<td>03/22/2018</td>
<td>Cyber Castle Approach, Common Attacks; Threat Management; Lab 2; Quiz 2</td>
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<tr>
<td>#5</td>
<td>03/29/2018</td>
<td>Crypto and Risk Management; Lab 3; Quiz 3</td>
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<tr>
<td>#6</td>
<td>04/05/2018</td>
<td>Basics of Windows and Linux Security; Lab 4; Quiz 4</td>
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<tr>
<td>#7</td>
<td>04/12/2018</td>
<td>Group Presentations</td>
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<tr>
<td>#8</td>
<td>04/19/2018</td>
<td>Final Exam</td>
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