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CIS 356 - Fundamentals of Cybersecurity and Intelligence Gathering

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CIS 356-ZI81: Intermediate-Level Topics in Computer Applications (Spring 2020) – Revised Syllabus (COVID-19)
Department of Computer Science, Lehman College – CUNY

Course Information

CIS 356-ZI81: Intermediate-Level Topics in Computer Applications: Fundamentals of Cybersecurity and Intelligence Gathering

This course will provide an introduction to the field of cybersecurity. We will explore the various branches of cybersecurity and how they are interconnected. You will learn about:

- Cybersecurity concepts
- Open Source Intelligence (OSINT) – Media Reports and Relevance
- Explore tools to enhance our understanding and security posture
- Personal Security
- Rising Cybersecurity Threats
- Network topologies and protocols
- Local network Security

Instructor Information

Instructor: Fahad Choudhury, Adjunct Lecturer

Email: fahad.choudhury53@gmail.com

Classroom: Online

Office hours: TuTh 7:00PM – 7:30PM (Email in advance) – Via email

- Video conferencing via Skype will be arranged if needed

Course Learning Objectives

After completing this course, students will be able to:

- Define cybersecurity and how it applies to today's world.
- Analyze media reports and other OSINT to determine its relevancy to personal and enterprise wide security.
- Communicate risk, impact and necessary actions to mitigate threats discovered through OSINT.
- Confidently speak on technical concepts and succinctly explain the Bottom-Line Up Front (BLUF)

Materials

Case studies and Blackboard discussions will revolve around articles assigned for reading. These articles will be communicated to the students in advance and will be posted on Blackboard.

Due to the lack of a classroom, labs will no longer be required for this class. Without the in-person interaction required to walk students through installation and guide them to successfully complete the labs, it is no longer viable to

There are *no mandatory books for this class*, but if students want to familiarize themselves with some of the technical concepts that will be covered in class, I *recommend the book below*. Again, students who don't get the book won't be at no type of disadvantage. The entire book will not be covered in class – All technical and conceptual topics and terms will be covered in class and PowerPoint deck will be provided to the students.

Recommended Text:

CompTIA Security+ Study Guide: Exam SY0-501 | Publisher: Sybex by
Emmett Dulaney (Author), Chuck Easttom (Author)
Seventh Edition (any edition will suffice) – Older versions are cheaper
ISBN-10: 1119416876
ISBN-13: 978-1119416876

Delivery of Course Content

Course will be delivered via PowerPoint slides that will be posted on Blackboard. These slides will be accompanied by videos that will help students grasp and understand the material much easily. The assignment and discussions will reinforce the content being taught and will be an indicator of their understanding. Assignments, discussions, and the course slides will be delivered to the students once per week with a one-week deadline for all assignment and discussions.

Use of Technology and Blackboard Information (if applicable)

We will be using a Blackboard for all of class assignments and discussions. It can be accessed through the Lehman website at www.lehman.cuny.edu. We will go over how to access the site and its topography during the first weeks of class. If you have any questions about your Lehman email address or your password, or if you have any problems accessing the site please call the computer helpdesk at 718-960-1111.

Grading Policy

Your final grade will be comprised of the following components:

- Assignments and Discussions = 30%
 - Completion of timely assignments and discussions will count as attendance.
- Quizzes/Online Quizzes = 15%

- Weekly Cyber News – Related to COVID-19 = 10%
- Case Study = 20%
- Final Exam (online) = 25%

Weekly Cyber News – Related to COVID-19

Every week you will be required to read an article that pertains to cyber security and summarize in no more than a couple of sentences what the article was about and how it pertains to cyber security. Focus should be placed on COVID-19 related articles. Please refer to the instructions on Blackboard for more details.

Accommodating Disabilities

Lehman College is committed to providing access to all programs and curricula to all students. Students with disabilities who may need classroom accommodations are encouraged to register with the Office of Student Disability Services. For more information, please contact the Office of Student Disability Services, Shuster Hall, Room 238, phone number, 718-960-8441.

Attendance Policy (from student handbook)

Students are expected to attend classes regularly, and instructors are required to record attendance for grading and counseling purposes. Individual instructors, as well as departments or degree programs, may establish specific attendance requirements. Instructors have the right to weigh attendance and class participation in determining grades. It is the student's responsibility to ascertain the effect attendance may have on the grade in a course. Students receiving financial aid must be certified as attending classes regularly for continuing eligibility.

Academic Integrity and Plagiarism Policy

Statement may be found in student handbook. For more information, refer to <http://www.lehman.cuny.edu/student-affairs/documents/student-handbook-02.pdf>.