## *Course Description:*

The purpose of the course is to provide the student with an overview of security challenges and strategies of countermeasure in the information systems environment in an **organization or business** (not necessarily "personal" cybersecurity).  Topics include definition of terms, concepts, elements, and goals incorporating industry standards and practices with a focus on availability, vulnerability, integrity, and confidentiality aspects of information systems.

## *Cybersecurity Program Objectives:*

1. Analyze a complex Cybersecurity problem and apply the principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate both computing-based and non-computing-based solutions to meet a given set of Cybersecurity requirements in the context of the program's disciplines.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgements in the practice of Cybersecurity based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Identify and analyze user needs and take them into account in the selection, creation, integration, evaluation, and administration of computing-based and non-computing-based Cybersecurity systems.

## *Course Objectives:*

1. Explain information systems security and its effect on people and businesses.
2. Describe how malicious attacks, threats, and vulnerabilities impact an IT infrastructure.
3. Explain the role of access controls in an IT infrastructure.
4. Explain the role of IT operations, administration, and security policies.
5. Explain the importance of security audits, testing, and monitoring in an IT infrastructure.
6. Describe the principles of risk management, common response techniques, and issues related to recovery of IT systems.
7. Explain how businesses apply cryptography in maintaining information security.
8. Describe networking principles and security mechanisms.
9. Apply information security standards and U.S. compliance laws to real-world applications in both the private and public sector.
10. Describe information systems security educational opportunities and professional certifications.

## Administrative Information

| | |
|---|---|
| Instructor | Assistant Professor Frank H. Katz |
| Office/Phone | Science Center 210, Armstrong Campus. Office phone is 912-344-3192, or just 4-3192 if you are on campus |
| E-mail | **fkatz@georgiasouthern.edu** **However, to consolidate e-mails, I *insist* that you e-mail me via Folio's e-mail function,** but you may also contact me at my university email address, only if *in an emergency – see my Communication Policies Section below.* **When using Folio's e-mail function, you MUST enter the Folio class space to compose your email, otherwise, it could get lost.** |
| Personal website | https://franktheitprof.000webhostapp.com/index.html |
| Office Hours | T - Th, 2 pm to 5 pm. Also available by in-person appointment as well as Zoom or Google Meet appointment |
| Prerequisite | IT 2531 |
| Required Texts | <u>Fundamentals of Information Systems Security</u>, **4th ed**, David Kim and Michael G. Solomon. Jones & Bartlett Learning, publishers. **We are employing a "bundled" approach to our textbook and accompanying material and media (virtual lab) for this course.** The various options for purchasing the text (physical or e-book) and your access to the online lab (which you **MUST** have) are in the table below AND on the Courses page of my personal website provided above. |
| | Please note that I do not post a text as required and then not use it – if I list it as required, you *must* have it. |

## Textbook and Lab Access

Note that the ISBNs and prices below are applicable to **BOTH** the Georgia Southern Bookstore (Armstrong Campus) **AND** the Jones and Bartlett online site – JBLearning.

| Type of Purchase | ISBN & cost |
|---|---|
| Print bundle – printed text and virtual lab access | **978-1-284-251333**. $179.95 |
| EBook bundle – e-book and lab access | **978-1-284-24457-1**. $127.46 (price on JBL site) |
| Virtual lab access* | **978-1-284-24456-4**. $119.95 |
| The Virtual Lab Course Code, which is NOT the same as your personal individual access code, will be provided to you. | |

\* You purchased the physical book from a third party site, perhaps used. Note that, *as a minimum* you *must* have access to the Virtual Lab.

\*\* You will need to establish a Userid/Password with JBLearning. Upon purchase of your bundle, you will receive an **access code**, which is *NOT* the same as the **course code**. Once you have

signed into the site, and entered your access code (one-time), you will see the **course code** for our labs.

### *"Asynchronous Instruction Entirely at a Distance"*

This is how the course is listed. **What does this mean?** OK, it means that our class is **entirely online, BUT . . .** if I want to hold an online lecture via Zoom, I will do so. I probably won't do it often, but I may do it for complicated concepts, especially on how to use the Jones & Bartlett Labs (although there will be a pre-recorded video on this). If I hold any Zoom lectures, they will be recorded for all.

### *Materials and Resources not listed above:*

- A USB flash memory thumb drive (a drive as small as 1GB will suffice).
- Case studies that are not in the text may be assigned to the class. In that case, I will provide all relevant material to you. This includes online interactive "e-mates" from the **C**enter for **S**ystems **S**ecurity and **I**nformation **A**ssurance, or **CSSIA**.
- You are expected to possess or have access to the latest version of MS Word and MS PowerPoint. It might also be beneficial to possess or have access to MS Excel. *I will not accept documents completed in Open Office or Google Docs.*
- To draw computer network diagrams (for security-related work), you might benefit from possessing or having access to MS Visio, however, it is not required. Any such drawings done with Visio can be done in MS Word. MS Visio is available for free to our students from the Georgia Southern Microsoft Imagine site. **My personal recommendation for drawing network diagrams is the free draw.io software.**

## *IMPORTANT DATES*

| | |
|---|---|
| Monday, January 8 | First day of Class |
| Monday, January 15 | **MLK Jr Holiday –** no classes |
| Thursday, February 29 | *Likely* date that the Mid-Term Test will be available |
| Monday, March 4 | **Mid-term of the semester, last day to withdraw without a WF** |
| Monday, March 11 – Friday, March 16 | **Spring Break** |
| Monday, April 29 | Georgia Southern's last day of class |
| **During Final Exam Week, exact date to be determined** | **Final Exam. The university's exam period begins on Tuesday, April 30 and ends on Saturday, May 4** |

*Grading***:**

The course will be graded based on a total of 1000 total points available:

| ITEM | Nbr | Value in Points | Value out of 1000 |
|---|---|---|---|
| Required Online Discussion Questions | 3 | 20 | 60 |
| Try Cyber career investigation exercise | 1 | 20 | 20 |
| Chapter Quizzes (one chapter does not have a quiz) | 14 | 10 | 140 |
| CSSIA Quiz Questions (in five different quizzes) 30 @ 2 pts each | Varies | Varies | 60 |
| Risk Assessment HW & Separate Cryptography Lab | 1 each | 80 | 160 |
| Lab exercises | 8 | 40 | 320 |
| Mid-Term Exam | 1 | | 100 |
| Final Exam (contains more material than the Mid-Term Exam) | 1 | | 140 |

### *General Structure of this Course*:

The general process will be that you will:

1. **Start each module** with the introduction **in Folio.**
2. Each module will generally correspond to one chapter in the textbook. For the most part, there will be one module (chapter) per week.
3. Each module in Folio will contain:
   a. An introduction to the chapter
   b. Chapter Topics
   c. Chapter Goals
   d. Chapter Tasks
   e. Recorded Lectures
   f. "Static" PowerPoints
   g. Chapter Quiz (usually 8 to 10 questions)
   h. CSSIA Quiz (if assigned in the module)
   i. Required Discussion Question (if assigned in the module)
4. All Jones and Bartlett Labs (assignment dropbox and quizzes), other homework assignments, the team project, and the Mid-Term and Final Exams will be found in the separate Folio Jones and Bartlett Labs module.

### *Communication Policies:*

For complete policies, see the section online.  This section has to do with email.

Although I have provided you with my Georgia Southern email address, it is **REQUIRED** that students **email me through the Folio**.  This will make it easier for me to find and reply to all emails, as they will be in one central location.  **When e-mailing me in Folio, be sure to "enter" our class section to compose your email. Otherwise, your email could get "lost" in the Folio system**. In addition, students should expect the following:

- Emails sent during normal working hours (8 am to 5 pm) will be answered as promptly as possible.
- Emails sent after 7 pm (Sunday – Thursday nights, i.e. "weekdays") may not be answered until the next morning.
- Emails sent on a weekend will be answered as soon as practicable, but there may be as much as a 24 hour lag between a student emailing the instructor, and the instructor responding.  In some cases, students may not receive a response until the subsequent Monday morning.
- Replies to e-mails sent to my [fkatz@georgiasouthern.edu](mailto:fkatz@georgiasouthern.edu) address **will ONLY be answered via the Folio email system**.

## *Individual Lab and Assignment Information (applicable to <u>all</u> assignments):*

- Individual homework assignments are clearly indicated as such. *You are expected to **do your own work** on each of these assignments.* Collaboration with other students is not allowed, and if discovered, may result in a zero on the assignment for all students involved.

- All assignments are due on the date indicated in the specific assignment in Folio. Each Folio dropbox has two dates: the **due date**, when the assignment is due, and an **end date**, which allows you to submit your assignment up to that end date. Late submissions will be subject to the penalties described below. Assignments submitted within the following time frames will be assessed the following penalties:

| | |
|---|---|
| From the due deadline, until 24 hours later (1$^{st}$ day late) | 10% deduction |
| Between 24 and 48 hours late (one day late) | 20% deduction |
| **Assignments will not be accepted more than 48 hours after the due deadline** | |

- Quizzes (weekly, CSSIA, and lab) and Tests do **not** have the due date/end date schema described above. **All quizzes (including Lab Quizzes for Jones and Bartlett Labs) and tests are due on their due date/time**.

- Depending on their proximity to the end of the semester, **assignments due at the end of the semester may not have an end date**.

- Georgia Southern University is in the Eastern Time Zone. Regardless of where *you* might be, all times listed are **EDT** or **EST**, and you must plan accordingly. Assignment due dates/times will **NOT** be changed to accommodate the time zone you are in. This applies to quizzes and tests as well.

- **All due times are 11:59 pm unless otherwise noted.** This applies to all quizzes, tests, discussion questions, and assignments.

- Assignments submitted in a method other than described will not be graded. *You are generally given one to two weeks to complete an assignment.* Note that *submitting homework electronically means **getting your work done early**. You should plan for computer or network errors.*

- Submission of files:
    - Submitting a **corrupted file**, i.e., a file that cannot be opened by me, for an assignment, **will result in a zero** for that assignment. Be sure that the file you submit will indeed open before submitting it.
    - Submitting a **shortcut to a file**, i.e., not the file itself, **will result in a zero** for that assignment.
    - Submitting a **blank or empty file** (such as just submitting the answer file for the Cryptography assignment without any answers) **will result in a zero** for that assignment.
    - **In each of the three cases above**, **you will not be given extra time to complete the assignment, you will not be given an opportunity to resubmit the assignment**.

- There may be times when two assignments are open at the same time (i.e. the "grace period" for one may overlap the start of another – I will try to keep this to a minimum number of occurrences). **It is YOUR responsibility to ensure that you submit your file to the correct assignment. Submitting a file to the wrong assignment will result in that file not being graded**.

- It is recognized that there may need to be research done online to complete some of the assignments.  You will be given appropriate formatting standards for those assignments, which **must** be adhered to.

- **IN OTHER WORDS – IT IS YOUR RESPONSIBILITY TO PAY ATTENTION TO DETAIL AND DO YOUR OWN QUALITY ASSURANCE (QA) BEFORE SUBMITTING YOUR WORK.**

*Jones and Bartlett Lab Assignments:*

- These involve **doing** as well as applying what you've learned in the textbook and any online lectures.
- For how to use and perform the labs, see the **Common-Lab-Tasks** document in the Jones and Bartlett Labs and Lab Info module.  This was created by Jones and Bartlett.
- For more information on how to sign into the labs, see the **Jones and Bartlett Account Info** document created by your instructor in the Jones and Bartlett Labs and Lab Info module
- For how to access and perform the labs, you can also view the **video** in the Jones and Bartlett Labs and Lab Info module
- For general lab **content and submission** information, see the **JBL-Labs-Submission-Guidelines-FAQs** document in the Jones and Bartlett Labs and Lab Info module.
- Each lab will consist of:
    - A required online quiz component (in Folio, graded automatically), and
    - A required file (or files) that must be submitted to a Folio dropbox. These files will generally contain: (1) required images; (2) may contain required and/or extra credit short answer questions; and (3) additional files required by the lab.
- You may upload lab files to the dropbox between the due date and the end/late date. **If you do this, the grade of your dropbox will be subject to the corresponding deduction in the table above. Lab Quizzes are only due on the due date. Doing just the lab quiz without uploading any files to the dropbox will result in a 20% deduction to the score of the quiz, as this indicates to me that it is probable that you did not do the lab.**

### *Discussion Questions*

- One of the requirements of an online course is that the students must interact with each other, and the best way to do this is through online discussion questions.
- These will be graded according to a standard rubric that I will provide.
- There will be no right or wrong answers to these questions – rather, you will be graded on how well you defend your position and how well you formulate your response.
- You will be *required* to make one original post (OP) and one response post (RP – response to someone else's post).
- For all the discussion question requirements, you **MUST** view the discussion posting guidelines posted online.

### *Module (Chapter) and CSSIA Quiz Policies*

- Quiz questions will be given after videos and/or exercises in Folio.
- Although each chapter quiz is worth ten points, there will be a varying number of questions per quiz. Some may have ten, some may have as many as 20. Thus, there is no uniform value applied to each question throughout the course.
- You will always be able to see the answers of the Chapter and CSSIA quizzes.

## Mid-Term and Final Exam Policies

- Your tests will consist of a combination of multiple choice/T-F and short answer questions. As this is an online course, both the Mid-Term Test and the Final Test **will be administered via the Folio test application**. Unless otherwise notified, I use the *Respondus Lock-Down Browser tool* for all online tests.
- **Mid-Term Test:** Y*ou will need to notify me **in advance** if you cannot be present for this test.* Failure to do so, without a medical excuse or extreme emergency that can be documented, will result in a late assessment of a 15% deduction on the test. Makeup of this exam, with or without the deduction of 15%, will only be given within one week of the original test. No make-up will be given more than one week after the original date of a test – in this case, the test will be scored as a zero.
- **Final Test policy:**
  - The Final Test is ***mandatory***. While it will predominantly contain material covered since the mid-term exam, approximately 5 to 10% of the questions will come from important material covered before the mid-term exam.
  - Failure to take the test within the time window allotted without a legitimate reason made known to me in ***advance*** will result in a zero for the exam. If you have a ***valid reason*** why you cannot take it on the test date, you ***must*** notify me in advance to have it specially scheduled.
- Since these are online tests, you may use your textbook and any notes you have. However, you may not collaborate with any other students. The use of the Respondus browser will prevent you from using your computer for any other purpose while you are taking the test.

**The Respondus Lockdown Browser will not work with a Chromebook computer**. Plan accordingly.

- You will always see the questions you answered incorrectly, but you will **never** see the answers. If you want to see the answers, especially for the final exam, you will have to contact me. Please note that short answer questions will **always** appear to be incorrect after you submit your test until I grade your short answer questions.

## *Making Up Assignments and Quizzes – Excused Absences*

- To be excused from class for **five or more class days** (i.e., Monday, Tuesday, Wednesday, Thursday, Friday) a student **MUST** contact the **Office of the Dean of Students** and submit appropriate documentation. This not only allows me to excuse you from class and make up the work it also notifies **your other professors and instructors** of your absence and your need to make up work.
- The link to Dean of Students Office for this purpose is: https://students.georgiasouthern.edu/dean/resources/notification-to-faculty/
- Legitimate absences of five or more class days include, but are not necessarily limited to:
  - o Death in the family – attendance at a funeral, mourning
  - o Severe illness, whether COVID-related or not
  - o Severe injury, whether from an auto accident or other accident
  - o Loss of domicile, whether from a fire, natural disaster (particular to you, such as a tornado affecting only your community – see below, **Changes to Syllabus,** for general disasters affecting the entire university) or eviction
  - o Military service – orders for reserve or National Guard duty
- Documentation for absences of five or more days **submitted to me (only) and not the Dean of Students Office** will **NOT** be honored.
- Documentation for absences of one to four days may be submitted to me. Such documentation should be the same kind of documentation submitted to the Dean of Students Office, such as a doctor's note or hospitalization, funeral notice, etc.
- Any assignment or quiz/test due during the period indicated by an email from the Dean of Students Office must be made up within seven days after the return to class date in that email. Such makeups will not be assessed any late deduction. Such assignments or quizzes/tests will **NOT** be allowed to be made up after that seven-day period.
- Any assignment or quiz/test due during the period I granted (1 to 4 day absence) must be made up within seven days after the return to class date I set. Such makeups will not be assessed any late deduction.   Such assignments or quizzes/tests will **NOT** be allowed to be made up after that seven-day period.
- No assignments or quizzes/tests may be made up after the last day of class, which is **Monday, April 29**.

## *"Re-do's" and Extra Credit*

- "Re-do's" (resubmissions) of a previously taken assignment or test are **not** allowed (yes, this has been requested in the past).  **Once an assignment or test is scored (as a zero, or any score greater than zero), that score is <u>final</u>**.

- Extra Credit assignments, questions added to a lab, assignment, or a test **are a privilege, not a right**. Such assignments/quizzes may be given at my discretion.
- To be fair to all students, such assignments/quizzes will **only be offered to the entire class. Individual extra credit assignments/quizzes will <u>not</u> be given**.
- Under **no circumstances** will any such assignments/quizzes be given *after the university's last day of class, which is* **Monday, April 29.**

### *Changes to Syllabus*

- **As your instructor, I reserve the right to change the class schedule, including assignments, labs, and tests,** *only if prior notice is given to the class*.
- Regarding hurricanes or other natural disasters. If classes are canceled by the university and/or an evacuation has been ordered by the authorities in Chatham County (Savannah) or Bulloch County (Statesboro), the instructor has the right to:
  - Cancel assignments or tests.
  - Revise due dates for assignments not canceled; revise the date of tests.
  - Revise components of assignments or tests.
  - Revise the value of assignments or tests.
  - Revise the overall value of the course (e.g. the course will now be worth 940 instead of 1000 points).
  - **Such changes will be broadcast to you via FOLIO e-mail.** If classes are canceled and/or an evacuation is ordered, you are responsible for, as best as possible, keeping up with university Eagle Alert updates and changes issued by me via eCampus e-mail. Changes to the *course* will **only** be issued from me to you by **Folio e-mail and Folio announcements**.

*Plagiarism and Cheating*

- **Violations of the Georgia Southern University Academic Dishonesty Regulations (including cheating and plagiarism) are taken very seriously.  Any violation of this policy will become part of the student's permanent educational record.  More information on the Academic Integrity policy and procedure can be found at http://students.georgiasouthern.edu/conduct/files/2018-2019-Code-of-Student-Conduct-FINAL-1.pdf**

- In this class, the **textbook homework assignments, lab exercises (unless otherwise specified), and exams *must be your own work***.

- **Team Project:** Although the Team project will be collaborative, as will be pointed out in the project guidelines, an individual grade will be given, and thus it is presumed that the student whose name is on a particular deliverable/document is the student who did the work.

- *STUDENTS ARE PROHIBITED FROM USING COPYRIGHTED, PLAGIARIZED MATERIAL SUCH AS INSTRUCTOR MANUALS/SOLUTIONS OBTAINED EITHER ONLINE OR FROM ANOTHER STUDENT.  ANY WORK FOUND TO HAVE BEEN SUBMITTED IN VIOLATION OF THIS POLICY SHALL RECEIVE A ZERO, AND THE POSSIBILITY THAT THE STUDENT(S) INVOLVED MAY BE TURNED IN TO THE GSU HONOR COURT.*

- If you are confused as to the difference between helping each other (which is encouraged) and cheating (which will not be tolerated), ask your instructor.

| Acceptable | Cheating |
|---|---|
| Including a brief quote from a web page with the source cited. | Copying entire pages or paragraphs and republishing it as your own. |
| Using graphics from a free clip art or graphic site. | Using someone else's graphics without permission |
| Discussing an assignment with another student. | Copying another student's work or file. |
| Looking at online sources or asking for a classmate's help to figure out what to do. | Duplicating a classmate's lab answers as your own without performing the lab activity yourself. |

### Disability-Related Accommodations

In compliance with the Americans with Disabilities Act (ADA), this course will honor requests for reasonable accommodations made by individuals with disabilities or demonstrating appropriate need for learning environment adjustments. Students must self-disclose their disability to the Student Accessibility Resource Center (SARC) before academic accommodations can be implemented. Students requesting alternative educational arrangements must submit a completed COVID-19 Alternative Educational Arrangement Request Form to the SARC office. For additional information, please call the SARC office at (912) 478-1566 on the Statesboro campus, or at (912) 344-2572 on the Armstrong and Liberty campuses.

### Illnesses

See above under **Making Up Assignments and Quizzes – Excused Absences**. In particular, if you need to self-report either a confirmed or suspected positive COVID-19 diagnosis, have received self-quarantine requirements, or have symptoms with pending test results, please complete the CARES Center COVID-19 self-reporting form (through the MyGeorgiaSouthern portal under "COVID-19 Information & Resources"). You may also reach the CARES Center by using the MyGS mobile app, calling 912-478-CARE (M-F 8am-5pm), or emailing covidsupport@georgiasouthern.edu. The CARES Center should not be used for medical advice. If you need medical advice, you need to call your health provider or 911.

## Detailed Semester Schedule by Topic (includes Tests)

| Week # Begins | Ch(s) | Topic - Notes |
|---|---|---|
| 1 – **Mon, Jan 8** | 1 | Introduction, including syllabus, Jones and Bartlett Labs. Information Systems Security |
| 2 – Mon, Jan 15 | 2 | Although this is an online class, **Monday, Jan 15 is MLK Jr. Day, the university is closed.** Information Systems Security (continued); Emerging Technologies are Changing How We Live |
| 3 – Mon, Jan 22 | 3 | Risks, Threats, and Vulnerabilities |
| 4 – Mon, Jan 29 | 4 | Business Drivers of Information Security |
| 5 – Mon, Feb 5 | 5 | Telecommunications |
| 6 – Mon, Feb 12 | 6 | Access Controls. |
| 7 - Mon, Feb 19 | 7 | Cryptography |
| 8 – Mon, Feb 26 | 7, 8 | **Mid-Term Exam covers Chapters 1 – 7 (likely available Thurs Feb 29 – Fri Mar 1).** Cryptography (continued); Malicious Software and Attack Vectors |
| 9 – Mon, Mar 4 | 8 | **Mon Mar 4 is mid-term, last day to withdraw without a WF**; Malicious Software and Attack Vectors (continued) |
| *Monday, March 11 – Friday March 16: Spring Break* | | |
| 10 – Mon, Mar 18 | 9 | Security Operations and Administration |
| 11 – Mon, Mar 25 | 10 | Auditing, Testing and Monitoring |
| 12 – Mon, Apr 1 | 11 | Contingency Planning |
| 13 – Mon, Apr 8 | 12 | Digital Forensics |
| 14 – Mon, Apr 15 | 13 | Information Security Standards |
| 15 – Mon, Apr 22 | 14, 15 | Information Security Certifications; Compliance Laws |
| 16 – Mon, Apr 29 | 15 | Compliance Laws (cont); **Mon, Apr 29 is the last day of class** |
| **Final Exam – Period begins Tues Apr 30 ends Sat May 4. Exams in my online courses are typically open for several days, but not the entire exam period. Dates TBA.** | | |

## IT 3530 – Fundamentals of Information Systems Security
## Spring 2024 - Online
*Instructor: Prof. Frank H. Katz*

## Detailed Lab & Assignment Schedule

| Week # Begins | Lab & Week Assigned | Lab & Week Due |
|---|---|---|
| 1 – **Mon, Jan 8** | | |
| 2 – Mon, Jan 15 | | |
| 3 – Mon, Jan 22 | **OUR 1st lab is Jones and Bartlett Lab 1:** Exploring the Seven Domains of a Typical IT Infrastructure; Risk Analysis HW | |
| 4 – Mon, Jan 29 | **OUR 2nd lab is Jones and Bartlett Lab 2:** Performing a Vulnerability Assessment | |
| 5 – Mon, Feb 5 | **OUR 3rd lab is Jones and Bartlett Lab 3:** Performing Packet Capture & Traffic Analysis | Lab 1; Risk Analysis HW |
| 6 – Mon, Feb 12 | | Lab 2 |
| 7 - Mon, Feb 19 | **OUR 4th lab is Jones & Bartlett Lab 5:** Using Encryption to Enhance Confidentiality and Integrity | Lab 3 |
| 8 – Mon, Feb 26 | Separate Crypto HW | |
| 9 – Mon, Mar 4 | **OUR 5th lab is Jones & Bartlett Lab 6:** Assessing Common Attack Vectors | JBL Lab 5 |
| *Mon, Mar 11 – Fri Mar 16: Spring Break* | | |
| 10 – Mon, Mar 18 | | |
| 11 – Mon, Mar 25 | **OUR 6th lab is Jones and Bartlett Lab 8:** Implementing Security Logging & Monitoring | JBL Lab 6; Separate Crypto HW |
| 12 – Mon, Apr 1 | **OUR 7th lab is Jones and Bartlett's Lab 9:** Configuring Backup & Recovery Functions | JBL Lab 8 |
| 13 – Mon, Apr 8 | **OUR 8th lab is Jones and Bartlett's Lab 10:** Performing Incident Response & Forensic Analysis | JBL Lab 9 |
| 14 – Mon, Apr 15 | | |
| 15 – Mon, Apr 22 | | JBL Lab 10 |
| 17 – Mon, Apr 29 | | |

*Note that the lab numbers listed above, along with their titles, correspond to the Jones and Bartlett lab numbers and titles.  There are eight labs. **We will not do JBL Labs 4 and 7***