ITS350: Information Systems and Security

Credit Hours: 3
Contact Hours: This is a 3-credit course, offered in accelerated format. This means that 16 weeks of material is covered in 8 weeks. The exact number of hours per week that you can expect to spend on each course will vary based upon the weekly coursework, as well as your study style and preferences. You should plan to spend 10-25 hours per week in each course reading material, interacting on the discussion boards, writing papers, completing projects, and doing research.

Course Description and Outcomes

Course Description:

Education in the need for security, planning, cryptology, and security technologies. Prepares students for CompTIA Security+ certification exam.

Course Overview:

This course provides foundational knowledge of the essential elements of network security and equips students with the skills and knowledge required to support IT security, planning, and cryptology in organizational settings. Students learn about various technologies available to keep digital assets secure as well as the physical security methods that are constitutive of a comprehensive secure solution. Upon successful completion of the course students will have the ability to evaluate organizational needs to secure digital assets and to design, propose, and implement, solutions that minimize exposure to the many internal and external security risks that organizations face in the 21st century workplace. The course also prepares the students for the CompTIA Security+ and TestOut Security Pro certifications.

Course Learning Outcomes:

1. Analyze organizations' network security needs and potential vulnerabilities and devise viable solutions for those needs.
2. Demonstrate working knowledge of network security concepts, issues, vulnerabilities, and required planning for industry network security concerns.
3. Complete assessments and lab simulations to prepare for the Security+ exam.
4. Apply tools, conceptual knowledge, and concrete skills to align organizational needs with information technology initiatives, ensuring operation in a secure network environment.
**Participation & Attendance**

Prompt and consistent attendance in your online courses is essential for your success at CSU-Global Campus. Failure to verify your attendance within the first 7 days of this course may result in your withdrawal. If for some reason you would like to drop a course, please contact your advisor.

Online classes have deadlines, assignments, and participation requirements just like on-campus classes. Budget your time carefully and keep an open line of communication with your instructor. If you are having technical problems, problems with your assignments, or other problems that are impeding your progress, let your instructor know as soon as possible.

**Course Materials**

Textbook Information is located in the CSU-Global Booklist on the Student Portal.

**Course Schedule**

**Due Dates**
The Academic Week at CSU-Global begins on Monday and ends the following Sunday.

- **Discussion Boards**: The original post must be completed by Thursday at 12 midnight MT and Peer Responses posted by Sunday 12 midnight MT. Late posts may not be awarded points.
- **Mastery Exercises**: Students may access and retake mastery exercises through the last day of class until they achieve the scores they desire.
- **Critical Thinking Activities**: Assignments are due Sunday at 12 midnight MT.

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<tr>
<th>Week #</th>
<th>Readings</th>
<th>Assignments</th>
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| 1      | Modules 1 & 2 in *LabSim: Security+ Security Pro* (Read and view ALL content) | - Discussion (25 points)  
- Critical Thinking (50 points) |
| 2      | Module 3 in *LabSim: Security+ Security Pro* (Read and view ALL content) | - Discussion (25 points)  
- Critical Thinking (50 points) |
| 3      | Module 4 in *LabSim: Security+ Security Pro* (Read and view ALL content) | - Discussion (25 points)  
- Critical Thinking (50 points) |
| 4      | Module 5 in *LabSim: Security+ Security Pro* (Read and view ALL content) | - Discussion (25 points)  
- Critical Thinking (50 points) |
| 5      | Modules 6 & 7 in *LabSim: Security+ Security Pro* (Read and view ALL content) | - Discussion (25 points)  
- Critical Thinking (50 points) |
| 6      | Modules 8 & 9 in *LabSim: Security+ Security Pro* (Read and view ALL content) | - Discussion (25 points)  
- Critical Thinking (50 points) |
| 7      | Module 10 in *LabSim: Security+ Security Pro* (Read and view ALL content) | - Discussion (25 points)  
- Critical Thinking (50 points) |
| 8      | Module 11 in *LabSim: Security+ Security Pro* (Read and view ALL content) | - Discussion (25 points)  
- Final Exam (250 points)  
- Portfolio (200 points) |

**Assignment Details**

This course includes the following assignments/projects:
Module 1

Week 1 Critical Thinking Assignment (50 points)

Complete the Week 1 Critical Thinking Assignment in LabSim, which can be accessed from your TestOut LabSim home page per the following instructions:

To the right of the ITS350 course name under My Classes, click **New Exam** to access the Assessment Exam dialog box. Then click **Begin** to start the **Week 1 Critical Thinking Assignment**.

You will have **one opportunity and a limit of three hours** to complete this assignment so it is strongly recommended that you prepare by completing all videos, simulations, and exam questions provided in this week’s LabSim module.

When you have finished the Critical Thinking Assignment, take a screen shot of the final screen showing the score to certify that you have completed all tasks. Then paste the screen images into a Word document with your name, date, school name, section, course name, and instructor name and submit as the deliverable for this assignment.

Module 2

Week 2 Critical Thinking Assignment (50 points)

Complete the Week 1 Critical Thinking Assignment in LabSim, which can be accessed from your TestOut LabSim home page per the following instructions:

To the right of the ITS350 course name under My Classes, click **New Exam** to access the Assessment Exam dialog box. Then click **Begin** to start the **Week 2 Critical Thinking Assignment**.

You will have **one opportunity and a limit of three hours** to complete this assignment so it is strongly recommended that you prepare by completing all videos, simulations, and exam questions provided in this week’s LabSim module.

When you have finished the Critical Thinking Assignment, take a screen shot of the final screen showing the score to certify that you have completed all tasks. Then paste the screen images into a Word document with your name, date, school name, section, course name, and instructor name and submit as the deliverable for this assignment.

Module 3

Week 3 Critical Thinking Assignment (50 points)

Complete the Week 1 Critical Thinking Assignment in LabSim, which can be accessed from your TestOut LabSim home page per the following instructions:

To the right of the ITS350 course name under My Classes, click **New Exam** to access the Assessment Exam dialog box. Then click **Begin** to start the **Week 3 Critical Thinking Assignment**.

You will have **one opportunity and a limit of three hours** to complete this assignment so it is strongly recommended that you prepare by completing all videos, simulations, and exam questions provided in this week’s LabSim module.

When you have finished the Critical Thinking Assignment, take a screen shot of the final screen showing the score to certify that you have completed all tasks. Then paste the screen images into a Word document with your name, date, school name, section, course name, and instructor name and submit as the deliverable for this assignment.

Module 4

Week 4 Critical Thinking Assignment (50 points)
Complete the Week 1 Critical Thinking Assignment in LabSim, which can be accessed from your TestOut LabSim home page per the following instructions:

To the right of the ITS350 course name under My Classes, click **New Exam** to access the Assessment Exam dialog box. Then click **Begin** to start the **Week 4 Critical Thinking Assignment**.

You will have one opportunity and a limit of three hours to complete this assignment so it is strongly recommended that you prepare by completing all videos, simulations, and exam questions provided in this week’s LabSim module.

When you have finished the Critical Thinking Assignment, take a screen shot of the final screen showing the score to certify that you have completed all tasks. Then paste the screen images into a Word document with your name, date, school name, section, course name, and instructor name and submit as the deliverable for this assignment.

**Module 5**

**Week 5 Critical Thinking Assignment (50 points)**

Complete the Week 1 Critical Thinking Assignment in LabSim, which can be accessed from your TestOut LabSim home page per the following instructions:

To the right of the ITS350 course name under My Classes, click **New Exam** to access the Assessment Exam dialog box. Then click **Begin** to start the **Week 5 Critical Thinking Assignment**.

You will have one opportunity and a limit of three hours to complete this assignment so it is strongly recommended that you prepare by completing all videos, simulations, and exam questions provided in this week’s LabSim module.

When you have finished the Critical Thinking Assignment, take a screen shot of the final screen showing the score to certify that you have completed all tasks. Then paste the screen images into a Word document with your name, date, school name, section, course name, and instructor name and submit as the deliverable for this assignment.

**Module 6**

**Week 6 Critical Thinking Assignment (50 points)**

Complete the Week 1 Critical Thinking Assignment in LabSim, which can be accessed from your TestOut LabSim home page per the following instructions:

To the right of the ITS350 course name under My Classes, click **New Exam** to access the Assessment Exam dialog box. Then click **Begin** to start the **Week 6 Critical Thinking Assignment**.

You will have one opportunity and a limit of three hours to complete this assignment so it is strongly recommended that you prepare by completing all videos, simulations, and exam questions provided in this week’s LabSim module.

When you have finished the Critical Thinking Assignment, take a screen shot of the final screen showing the score to certify that you have completed all tasks. Then paste the screen images into a Word document with your name, date, school name, section, course name, and instructor name and submit as the deliverable for this assignment.
Module 7

Week 7 Critical Thinking Assignment (50 points)

Complete the Week 1 Critical Thinking Assignment in LabSim, which can be accessed from your TestOut LabSim home page per the following instructions:

To the right of the ITS350 course name under My Classes, click New Exam to access the Assessment Exam dialog box. Then click Begin to start the Week 7 Critical Thinking Assignment.

You will have one opportunity and a limit of three hours to complete this assignment so it is strongly recommended that you prepare by completing all videos, simulations, and exam questions provided in this week’s LabSim module.

When you have finished the Critical Thinking Assignment, take a screen shot of the final screen showing the score to certify that you have completed all tasks. Then paste the screen images into a Word document with your name, date, school name, section, course name, and instructor name and submit as the deliverable for this assignment.

Module 8

Final Exam (250 Points)

Complete the Security Pro Exam, which can be accessed from your Home page in LabSim, before midnight of Week 8.

The Exam includes 14 questions and 51 tasks and you are allowed 120 minutes (two hours) to complete it. You will be allowed to take the exam only once.

Portfolio Project (200 Points)

ZXY Corporation has relocated to a new building that was wired and set up for a local area network (LAN). The company implemented a client/server-based network in which all printers, folders, and other resources are shared but everyone has access to everything and there is no security outside of the defaults that were in place when the system was set up.

You have been hired to secure ZXY’s network and ensure that the company has the highest levels of security to protect against internal and external attacks. In an 8-10 page proposal, include the following items to provide a comprehensive secure environment:

1. A plan to provide secure access control methods for all user access
2. A viable password policy, which includes complexity, duration, and history requirements
3. A cryptography method to ensure vital data is encrypted
4. A remote access plan to ensure that users who access the network remotely do so in a secure and efficient manner
5. A thorough plan to protect the network from malware and various types of malicious attacks

Your proposal should include all of the elements noted above with support, detail, and elaboration for each section explicitly grounded in knowledge from the assigned readings and media along with any outside sources you may choose to bring into your writing.

Your paper should be 8-10 pages in length with document formatting and citations of sources in conformity with CSU-Global guidelines for APA Style.
Course Grading

20% Discussion Participation  
35% Critical Thinking Activities  
20% Final Portfolio Paper  
25% Final Exam

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In-Classroom Policies
For information on late work and incomplete grade policies, please refer to our In-Classroom Student Policies and Guidelines or the Academic Catalog for comprehensive documentation of CSU-Global institutional policies.

Academic Integrity
Students must assume responsibility for maintaining honesty in all work submitted for credit and in any other work designated by the instructor of the course. Academic dishonesty includes cheating, fabrication, facilitating academic dishonesty, plagiarism, reusing/re-purposing your own work (see CSU-Global Guide to Writing and APA Requirements for percentage of repurposed work that can be used in an assignment), unauthorized possession of academic materials, and unauthorized collaboration. The CSU-Global Library provides information on how students can avoid plagiarism by understanding what it is and how to use the Library and Internet resources.

Citing Sources with APA Style
All students are expected to follow the CSU-Global Guide to Writing and APA Requirements when citing in APA (based on the APA Style Manual, 6th edition) for all assignments. For details on CSU-Global APA style, please review the APA resources within the CSU-Global Library under the “APA Guide & Resources” link. A link to this document should also be provided within most assignment descriptions on your course’s Assignments page.

Netiquette
Respect the diversity of opinions among the instructor and classmates and engage with them in a courteous, respectful, and professional manner. All posts and classroom communication must be conducted in accordance with the student code of conduct. Think before you push the Send button. Did you say just what you meant? How will the person on the other end read the words?

Maintain an environment free of harassment, stalking, threats, abuse, insults or humiliation toward the instructor and classmates. This includes, but is not limited to, demeaning written or oral comments of an ethnic, religious, age, disability, sexist (or sexual orientation), or racist nature; and the unwanted sexual advances or intimidations by email, or on discussion boards and other postings within or connected to the online classroom.

If you have concerns about something that has been said, please let your instructor know.