

Fundamentals of Information Technology Security  
CSEC 1110  
Lab 06

- Contact your instructor with your questions about the assignments.
- The student must insure all the answers are free from any malware.
- The student must insure all answers are legal as defined by the class syllabus.
- All parts of your answers must be neat and easy to read.
- Paragraphs are at least four properly constructed English sentences.
- Embedding documents within documents does not work with the D2L Bright Space assignments.

**Lab06: Secret and Public Keys**

- 6.1. Each part is worth eight points for a maximum of twenty-five points. Upload each section answer D2L Bright Space Assignment section 6.1 before the due date found in the csec1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
  - 6.1.1. Provide a comprehensive list of digital certificates considered authoritative by your operating system or a browser. Please label your answer.
  - 6.1.2. Explain how to add and delete a digital certificate to the list you provided. Remember to cite any sources of information you use. Please label your answer.
  - 6.1.3. Using at least one paragraph, explain the impact of adding or removing a digital certificate. Remember to cite any sources of information you use.
- 6.2. Each part is worth six points for a maximum of twenty-five points. Upload each section answer D2L Bright Space Assignment section 6.2 before the due date found in the csec1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
  - 6.2.1. Provide evidence of successfully concealing a message using steganography.
  - 6.2.2. Provide evidence of successfully extracting/viewing the steganography concealed message on a different host. This host is not the original host.
  - 6.2.3. Provide evidence of successfully extracting/viewing the steganography concealed message on a different host. This host is not the original or second host.
  - 6.2.4. In paragraph, explain how steganography could be used to enhance security.
- 6.3. Upload each section answer D2L Bright Space Assignment section 6.3 before the due date found in the csec1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
  - 6.3.1. Download a copy of the class permission form. Complete the form requesting permission to collect network traffic on the class network. Please do not send the permission form as an attachment.
  - 6.3.2. Submit a copy of the completed class permission form with your instructor's **verified** correct digital signature.
  - 6.3.3. In a paragraph, explain who may give permission to perform a security scan and why permission is needed.
- 6.4. Each part is worth four points for a maximum of twenty-five points. Upload each section answer D2L Bright Space Assignment section 6.4 before the due date found in the csec1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
  - 6.4.1. Identify a current security breach.
  - 6.4.2. Create a presentation for members of the organization that explains the following.
    - 6.4.2.1. In simple terms, what is the security breach?
    - 6.4.2.2. What is the impact of the breach on this organization?
    - 6.4.2.3. What systems/software does the security breach are impacted?
    - 6.4.2.4. How does the security breach spread?
    - 6.4.2.5. How do members of the organization know if they are impacted?
    - 6.4.2.6. What can members of the organization do to prevent the impact on themselves?