Texas Tech University
A Course on Digital forensics
Memory Forensics

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Welcome

Course Code & Title: CS 5280 & Introduction to Memory Forensics

Grade Level: Master

Content Area: Computer Science

Semester:

Instructor Info:

Office Location:

Office Hours:

This class is an overview of an introduction the logic of solving digital crimes and fighting malware using memory forensics. The purpose of the course is to give an introductory knowledge and skills about memory forensics. In order to do that, first three module gives fundamental knowledge such as hardware components, operating systems, data structure, and volatility framework. After that, fourth and fifth modules presents the knowledge and activities about memory acquisition and Windows memory forensics.

The course objectives are listed below:

1. Students will be able to identify the effect of hardware components and operating system structures.

2. Students will be able to identify the data structure about how data is organized within volatile storage.

3. Students will be able to install volatility. They will be also able to identify the benefits of volatility and describe the internal components.

4. Students will be able to apply windows memory acquisition.

5. Students will be able to identify windows memory forensics, and apply some activities about windows memory forensics.