Instructor: Dr. Jing-Chiou Liou  
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http://www.kean.edu/~jliou/classes.htm

Class Room: N 221
Class Hours: Monday and Wednesday 02:00 – 03:15PM
Office Hours: Monday – Thursday. Details provided on my Web site.
Instruction Method: Lecture & Lab.

Textbook:

Grading: Homework (7+1) 20% Midterm 25%
Final 25% Lab. (6 reports) 30%

Course Description & Objectives:
This course is a study of computer forensics, also commonly known as digital forensics. Topics covered are: computer forensic investigation principles, digital evidences, Windows and CLI operating systems investigation, online and virtual machine forensics, document and photograph forensics, and forensic tools.

Upon completion of the course, we will have a fully understanding of the up-to-date developments in computer forensics. We will also be capable of performing analysis and validation of central problems in computer forensics, including handling with hardware and acquiring evidences, processing crime and incident scenes, and developing cost-effective countermeasures to anti-forensic techniques.

Homework Assignments (HAs) and Lab. Report (LRs) submission policy:
- Students are expected to submit paper format HA and/or LR in the following week of the session, unless is mentioned otherwise.
- Late submission is allowed for up to a week delay, with a 10% deduction in grade.

HAs/LRs and Exams Integrity policy: You must submit your own works. Your answers/program will be considered as plagiarism, if:
- You copy/receive idea(s) or piece(s) of answer/program from someone without instructor’s permission.
• Your answers/programs are exactly the same as or very close in structure to others and cannot provide a reasonable explanation.

**Important University Academic Information:**
The Kean Academic Calendar is online at [http://kean.edu/offices/registrar/academic-calendar](http://kean.edu/offices/registrar/academic-calendar)
Student Code of Conduct: [http://www.kean.edu/policies/code-of-conduct](http://www.kean.edu/policies/code-of-conduct)
Tutoring and learning Support services: [http://www.kean.edu/content/tutoring-services](http://www.kean.edu/content/tutoring-services)

**Schedule:**
Week of 8/31: Overview.
Week of 9/7: Acquiring Digital Evidence/Data
Week of 9/14: Processing Crime and Incident Scenes
Week of 9/21: Windows and CLI systems (I)
Lab 1: MS Windows Files Forensics
Week of 9/28: Windows and CLI systems (II)
Lab 2: System Access Forensics
Week of 10/5: Linux and Mac File Systems
Lab 3: Linux System File Forensics
Week of 10/12: Digital Forensics Tools
Week of 10/19: Course review
Week of 10/26: **Midterm Exam**
Week of 11/2: Midterm Review
Photograph Forensics
Week of 11/9: Digital Forensics Analysis and Validation
Lab 4: Digital Forensics Tool - I
Week of 11/16: Email and Social Media Investigation
Lab 5: Digital Forensics Tool - II
Week of 11/23: Mobile Device Forensics
Lab 6: Digital Forensics Tool - III
Week of 11/30: Virtual Machine Forensics
Week of 12/7: Cloud Forensics
Week of 12/14: Course review
Week of 12/16: **Final Exam**