

ITP 477

Security and Computer Forensics (4 Units)

Class Webpage

<http://totale.usc.edu>

Course Objectives

After completing the course, the students will learn:

- 1) The fundamentals of Computer Forensics
- 2) Legal and ethical issues related to computer forensics
- 3) Best practices for gathering forensic evidence
- 4) Investigating and analyzing Windows and Linux systems

Class Times

Monday & Wednesday, 10:00 – 12:00 in OHE 406

Instructor

Name: Joseph Greenfield

Email: joseph.greenfield@usc.edu

Office Location: OHE 530 C

Lab Assistant

Name: Pierson Clair

E-mail: pclair@usc.edu

Texts/Resources

Required Text: Hacking Exposed Computer Forensics. Chris Davis, Aaron Philip and David Cowen. McGraw Hill/Osbourne 2005
ISBN: 0-07-225675-3

Grading

Labs(5):

Lab 1	5 %
Lab 2	10 %
Lab 3	15 %
Lab 4	15 %
Final Project (Lab 5)	30 %
Midterm	20 %
Class Participation/Attendance	5 %

Policies (Please Read!!!):

- Make-up policy for exams: In order to make up for a missed exam, the student must provide a satisfactory reason along with proper documentation. Usually make-ups are allowed only under extraordinary circumstances.
- Projects: It is YOUR responsibility to turn in your lab projects on, or before, the deadlines as set by the instructor. IT IS NOT THE RESPONSIBILITY OF THE LAB TA!
- Late Projects: Late submission of projects will result in loss of points, so please turn in your projects on time! **No projects will be accepted after 1 week** beyond the project's original due date. Everything regarding a project must be settled within 1 weeks of the project's due date. It is always better to let us know if you're going submit a project late. If you let us know ahead of time only 2 percent point loss per day. Otherwise it will be 5 percent per day!
- Though working together is encouraged, the projects must be your own effort. "Duplicate" projects will all receive zero points and possible referral to the Office for Student Conduct.
- All students should read, understand and abide by the University Student Conduct Code <http://www.usc.edu/dept/publications/SCAMPUS/governance/gov03.html>

Course Calendar:

Note: Lecture schedule subject to change during the semester

Week	Lecture	Reading
1	Introduction to Computer Forensics	Chapters 1 & 2
2	Forensic Methodologies	Chapter 4
3	Forensic Toolkit – Hardware and Software	Chapter 3 + Handouts
4	Forensic Reports and Investigation Preparation	Chapter 14
5	Windows Forensics I	Chapter 6 + Handouts
6	Windows Forensics II	
7	E-Mail and Internet Forensics	
8	MIDTERM	
9	Encryption and Network Forensics	
10	Live Investigations	
11	Linux Forensics	
12	Mobile Device Forensics	Chapter 13
13	Beyond Computers	Chapters 9 & 15
14	Open Source Software – Helix	Handouts
15	Final Project	