VALENCIACOLLEGE

Department of Network Engineering Technology
Division of Engineering, Computer Programming, & Technology
West Campus Building 9, Room 140 (407) 582-1904
http://www.valenciacollege.edu/west/engineering/

Digital Forensics I

Fall 2016 CET 2880C CRN: 12517

Description:

This course offers a solid foundation to computer forensics investigations: preparing students to acquire and analyze digital evidence. The course covers tools and techniques and explains topics such as file structure, data recovery, e-mail and network investigations, and expert witness testimony. Students will gain an understanding of the judicial system and the role of digital evidence. In addition, the student will gain practical knowledge in conducting digital investigations and preserving digital evidence that maybe used in court or corporate inquiries. The course is built on Blackboard. The class is online and the content, including discussions, will be online within Blackboard.

(Special Fee: $44.00) (3 credit hours; 4 contact/lab hours)

Prerequisites: *CET 2660C* and *CET 2792C*

Course Texts: **The Basics of Digital Forensics, 2nd Edition**
by John Sammons
Publisher: Syngress
Release Date: December 2014
ISBN: 9780128018927

Instructor: Doug Rehman
Use Blackboard Messages to Contact the Instructor
No scheduled office hours.
Requested meetings will be held via online sessions (GoToMeeting, Skype, Google Hangouts).

Meeting Location and Time: This class is online and requires participation throughout each week.

Exam and Grading Policy:

Attendance/Participation	=10%
Quizzes/Tests	=30%
Assignments	=25%
Final Exam	=35%

90 – 100%	= **A**
80 – 89%	= **B**
70 – 79%	= **C**
60 – 69%	= **D**
Below 60%	= **F**

Make-up policy:

Make-up examinations or other assignments may be permitted with prior instructor approval.

Attendance / Withdrawal Policy:

Regular participation is vital to academic success. Students who do not maintain regular participation and who fall behind in their work are subject to withdrawal by the instructor. A student may withdraw at any time prior to the College's withdrawal deadline for the term **(9/6/2016)**. Students will receive a W if withdrawn. A**ttendance/participation will be determined by participating in the online discussions for that week found in the "Discussions" link in the left column of Blackboard. To receive credit for attendance/participation for a given week, you MUST participate in the discussion for that week before 5pm of the Sunday at the end of that week.**

Student Conduct and Academic Honesty:

The fields of Cyber Security and Digital Forensics demand a high level of ethics from their practitioners. Students in this course are required exhibit integrity, honesty, and ethics. Failing to do so by any form of cheating on a quiz, assignment, or exam will automatically result in a grade of F for that item and a second instance will automatically result in a grade of F for the course.

• Exams, homework, and assignments are considered individual effort unless otherwise stated; any submissions that are too similar for coincidence will receive no credit.

• Students are responsible for preparing for class by reading pre-assigned readings and completing any assignments. Students are fully responsible for all material covered in class.

• Quizzes, homework, and tests that are submitted late without prior approval will receive no credit. Where permitted, late submissions will be subject to the following reductions:

0-1 weeks	-10%
1-2 weeks	-20%
2-3 weeks	-30%
3+ weeks	-100% (no credit will be given)

No late submissions will be accepted after **10/15/2016**.

• **Quizzes, tests, and the final will be taken at the West Campus Testing Center. If a student desires to take examinations at another testing center, it is their responsibility to request that tests be made available at that that testing center. <u>Such requests must be made within the first week of class and made via the messages area of Blackboard.</u>**

• Use the messaging feature of Blackboard for important communications such as missing an exam and brief questions about specific assignments. All communications should be conducted through Blackboard. Questions such as "What did we cover in class?" will not result in a response. Messages with specific questions will be answered as soon as possible, usually within 24 hours. Students who need more than a brief response should arrange a meeting with the instructor. If critically needed, the department phone number has been provided for those instances when online communications are not feasible. Someone at the department will take your message for the instructor and will leave it in the instructor's mailbox. **<u>The Blackboard web space for the class contains the schedule and assignments information. The student should review this area daily for changes to the course material and class business. It is the student's responsibility to monitor Blackboard. Students should ensure that they closely monitor their official Valencia email address for emails concerning class announcements.</u>**

Course Schedule (**Tentatively and Subject to Change**):

(Class is held online via Blackboard)

"Ch." refers to the Chapter(s) of the text that is/are assigned reading for that week's class. You are expected to have completed that reading prior to the class period for that week. (Except of course the reading for the first class meeting which should be completed by the next class meeting.)

August

8/29/2016

Introduction to Digital Forensics	Ch. 1: Introduction

September

9/5/2016

Courts & Laws	Ch. 7: Legal
Cybercrime	

9/12/2016

Computer Fundamentals	Ch. 2: Key Technical Concepts
Forensic Labs & Tools	Ch. 3: Labs and Tools
Forensic Methods	Ch. 4: Collecting Evidence

9/19/2016

Microsoft Windows Systems Analysis	Ch. 5: Windows System Artifacts

9/26/2016

Anti-Forensics	Ch. 6: Anti-Forensics

October

10/3/2016

Online Activity Forensics	Ch. 8: Internet and Email

10/10/2016

Mobile Devices	Ch. 10: Mobile Device Forensics
Network Forensics	Ch. 9: Network Forensics
Enterprise Storage	

10/17/2016

Developing Issues in Digital Forensics	Ch. 11: Looking Ahead
Review for Final Exam	

*****Final Exam to be Taken at Testing Center *****

Disclaimer Statement:

As many factors may affect the development and progress of a class, the instructor reserves the right to alter the schedule as may be required to assure attainment of course objectives.

Expected Student Conduct:

Valencia Community College is dedicated not only to the advancement of knowledge and learning but is concerned with the development of responsible personal and social conduct. By enrolling at Valencia Community College, a student assumes the responsibility for becoming familiar with and abiding by the general rules of conduct. The primary responsibility for managing the classroom environment rests with the faculty. Students who engage in any prohibited or unlawful acts that result in disruption of a class may be directed by the faculty to leave the class. Violation of any classroom or Valencia's rules may lead to disciplinary action up to and including expulsion from Valencia. Disciplinary action could include being withdrawn from class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. You will find the Student Code of Conduct in the current Valencia Student Handbook.

Computer/Equipment Use Policy:

• Use of computers in the Business, IT, and Public Services classrooms at Valencia Community College is restricted to those activities designated by the instructor to enhance the class materials. Any other use is strictly forbidden.

Inappropriate use includes, but is not limited to:

• Use of computer to send E-mail or access Internet sites not specifically assigned in class.
• Use of computer for job, internship, homework or other activities not assigned in class.
• Modifying any hardware or software system configuration or setting.
• Activities not in accordance with the Valencia Student Code of Conduct
• Use of computers in the Business Students open lab (Bldg. 2, Room 304) is limited to those activities involved with preparing homework or coursework in the IT or Business departments and is subject to the same restriction as listed above.
• Computer use is remotely monitored; any student using computers inappropriately may be subject to dismissal from class or banishment from the lab. Subsequent offense may be sent to the campus administration for further disciplinary action.

Core Competencies:

Valencia faculty have defined four interrelated competencies (Think, Value, Communicate, ACT) that prepare students to succeed in the world community. These competencies are outlined in the College Catalog. In this course, through lecture and discussion, group work, and other learning activities, you will further develop your mastery of those competencies.

Students with Disabilities

Students with disabilities who qualify for academic accommodations must provide a Notification to Instructor (NTI) form from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class; accommodations will not be applied retroactively. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities. West Campus SSB, Rm. 102 Phone: 407-582-1523 Fax: 407-582-1326