

CASPER COLLEGE COURSE SYLLABUS
CSEC 1530N Computer Forensics

Semester/Year: Fall 2015

Lecture Hours: 2

Lab Hours: 2

Credit Hours: 3

Class Time: N/A

Days: M-F

Room: ONLINE

Instructor's Name: Eric Salveggio

**Instructor's Contact
Information: 307-277-3918**

Office Phone:

Email: esalveggio@gmail.com

Office Hours:

Course Description: The universal use of technology in every aspect of our lives has provided the need for the recovery of evidence in a digital format. In today's technology driven world most crimes and civil disputes involve the use of some form of a digital device. This course is designed to teach students how to perform computer crime investigations by identifying, collecting and maintaining digital artifacts to preserve their reliability for admission as evidence.

Statement of Prerequisites: N/A

Goal: The primary goal of this course is to provide the student with a structured knowledge base on how to perform computer crime investigations and the recovery and analysis of digital evidence.

Outcomes: This is a lecture-lab based course using a variety of resources to introduce and reinforce concepts.

Web Portal Resources

In addition to the classroom setting, this class utilizes two websites, the Moodle website, which contains additional course reference information and links, including quizzes, exams, all resource materials referenced in this syllabus, and the Course Technology Cengage "Learning" website, which contains additional student materials that may be referenced from weekly assignments listed in Moodle. Each week is clearly identified for easy cross reference to the required assignments, reading and written, for any given week. Links to the Cengage site can be found in your textbook, and are also identified in Moodle when appropriate. There are no access codes required to access student information for either primary text or semester case study assignments. The link for the Cengage Learning website is at the top of the Moodle website; simply click on the OS text icon at the top of the Moodle course portal.

The Moodle shell will be made available no later than the first day of class and is the student's primary source of assignment and schedule information. Any assignment due date changes and any class schedule changes will be identified in Moodle, as well as communicated via GMail.

Ultimately, it is the student's responsibility to be aware of scheduled assignment due dates, using Moodle as your primary calendar for all course deliverables.

Lab Hands-On Projects

Course activities will be divided between lecture and hands-on project labs. Labs will be Internet-based activities exploring resources available to both criminal justice and business management professionals as well as computer forensics specialists. Individual lab projects will typically take 20-45 minutes, depending upon student, and all chapter hands-on project labs will typically be completed in a single lab setting. Completion of lab write-up may take additional time beyond scheduled in-class lab time, and can be completed outside the classroom using student computer of choice with MS Office 2010 software. Should students require additional lab time to complete web-based research lab research can be accomplished using a personal computer of choice connected to the Internet.

Current Event Article Reviews

There will be a maximum of four (4) Current Event Article Reviews, which will be identified within the class. The primary purpose of Article Reviews in this lecture-lab course offering will be to reinforce chapter reading material in preparation for in-class discussions during lecture periods. Students will contribute knowledge gained from periodical research related to chapter reading during lecture discussions to bring text material into real-world scenarios. Students should also be able to relate their current event article research directly to their research topic if they so choose, thus providing maximum learning value to both student research and class discussions.

Assignment Submissions

All course assignments for each chapter and any exams for the course will be posted in Moodle. Course assignments may be adjusted during the semester, and any changes to assignment due dates or assignment content, including quizzes and tests, will be based on class consensus when possible and posted to Moodle. *It is important that students check Moodle weekly for posted updates, and it is the student's responsibility to ensure they maintain awareness of any changes. When in doubt, ask.* Unfortunately, your instructor is not perfect. It is anticipated that class schedule changes, resource conflicts, or changes in assignments and/or shifts in assignment due dates may not remain consistently communicated between GMail and Moodle weekly scheduled activities and assignment posting due dates within Moodle itself. Please simply notify your instructor should you have questions or notice a discrepancy between in-class communicated changes, GMail communicated changes, and activity scheduling posted in Moodle. Unless otherwise stated, Moodle assignment due dates rule as posted.

Exam Submissions

A Mid-Term exam will be given during the semester and will cover the chapters assigned up to that point as specified in the Casper College Semester Schedule. The Final Exam (given according to the college schedule for final exam week) will emphasize the last half of the semester. The Final Exam will follow the same format as the Mid-Term exam, unless otherwise communicated prior to Final Exam week. Both major Exams will be offered only in the classroom, utilizing traditional paper format, and will not require Moodle access. There will be no make-up exams offered, unless extenuating circumstances preclude class attendance that day. For those students with families, please plan accordingly to ensure you are available during exam times. Exceptions will be evaluated by the instructor and the instructor has final approval decision for make-ups.

Evaluation Criteria: Grades will be assigned on a total percentage basis for all course assignments AND Cour Participation Activity (CPA) worksheet completion. All points for the class course assignments will be added an percentage figured against total possible points within the following categories:

- 50% Hands-On Lab Projects
- 10% Current Event Articles
- 15% Midterm / 15% Final
- 30% Midterm and Final Exam
- 10% Class Contribution*

*An assessment of class attendance, cooperation with others, class participation, attitude, initiative, and the demonstrated ability to get your work in on time.

The grading scale is as follows:

A.....	90-100%
B.....	80-89%
C.....	70-79%
D	60-69%
F	0-59%

➤ **Required Text, Readings, and Materials:** *Guide to Computer Forensics & Investigations (4th Ed.)*. Nelson, Phillips, & Steuart. (2010). (ISBN-13: 978-1-435-49883-9)

Class Policies: As a student you are expected to attend all classes for which you are registered and will be accountable for all class work during an absence. Excessive absences or tardiness will result in a lowered grade or dismissal from the course, as absences will directly impact your ability to engage in a scheduled Course in-class activity. In addition, you are expected to complete all reading assignments, complete all homework assignments/projects and take all scheduled exams. Reading assignments should be completed at home. Assignments should be completed and submitted in the order listed on the syllabus as all assignments relate to weekly and unit level text reading and class discussion comprehension, as well as timely lab completion.

For On Ground Classes: Cell phones, pagers, music CDs, MP3 players, radios, etc. are PROHIBITED in the classroom during lecture periods. Students are welcome to use personal laptops with appropriate MS Office software for in-class labs, taking notes, and project research. However, personal email and chats are prohibited during class period. Violations will result in immediate class drop. **Students are expected to turn off cell phones or set them to vibrate during class time.** If you need to take a call, you must leave the classroom to do so. Students not abiding by these rules will be asked to leave the classroom.

An important objective of this class is to maximize each student’s opportunity to learn. You are required to show respect to your instructor and fellow classmates—be courteous and considerate of each other at all times. Disrespectful or disruptive behaviors will not be tolerated. Use of inappropriate behavior or language can result in dismissal from class.

Last Date to Change to Audit Status or to Withdraw with a W Grade: November 12, 2015

Student Rights and Responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

Academic Dishonesty: (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly.

ADA Accommodations Policy: If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college's Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

Week 1: Chapter – Computer Forensics and Investigations as a Profession

Week 2: Chapters 2 and 3 – Understanding Computer Investigations, The Investigator's Office and Laboratory

Week 3: Chapter 4 – Data Acquisition

Week 4: Chapter 5 – Processing Crime and Incident Scenes

Week 5: Chapter 6 Working with Windows and DOS systems

Week 6: Chapter 7 – Current Computer Forensic Tools

Week 7: Chapter 8 – Macs and Linux Boot Processes and File systems

Week 8: MIDTERMS – Chapter 9 – Computer Forensics Analysis and Validation

Week 9: Chapter 10 – Recovering Graphic Files

Week 10: Chapter 11 – Virtual Machines, Network Forensics, and Live Acquisitions

Week 11: Chapter 12 – E-Mail Investigations

Week 12: Chapter 13 - Cell Phone and Mobile Device Forensics

Week 13: Chapter 14 – Report Writing for High-Tech Investigations

Week 14: Chapter 15 – Expert Testimony in High-Tech Investigations

Week 15: Chapter 16 – Ethics for the Expert Witness

Week 16: FINALS and PROJECTS