

Eastern Kentucky University
Department of Computer Science
INF322 Computer Forensics II
CRN: XXXXX

I. General Information

Lectures: Wallace 429, W 6:00 pm – 8:45pm
Instructor: Shuangteng Zhang
Email: shuangteng.zhang@eku.edu
Phone: (859) 622-1925
Office: Wallace 412
Office hours: MW: 9:00am – 10:00am; TR 10:00am – 12:00 pm (or by appointment)
Course page: <http://www.eku.edu/onlinelearning/> (EKU Blackboard)

II. Course Description:

INF 322 Computer Forensics II (A). Formerly CSC 322. Prerequisite: CSC 321 with a minimum grade of “C”, or INF 321 with a minimum grade of “C”. Introductory course on computer forensics. Topics include digital evidence, digital forensics investigation procedure, evidence identification, data acquisition, crime scene processing, digital forensics tools, quality assurance, evidence processing, investigation report, and court testimony. Credit will not be awarded to students who have credit for CSC 322.

III. Required Text:

- (1) Bill Neson, Amelia Phillips, etc., *Guide to Computer Forensics and Investigations*, 4rd Ed, Course Technology Incorporated, 2009, **ISBN-10:** 1435498836; **ISBN-13:** 9781435498839.
- (2) Computer Forensics: Investigation Procedure and Response, published by Course Technology, 2010. ISBN-13: 978-1-4354-8349-1.

IV. Learning Outcomes:

INF 322 common learning outcomes:

In this course, students will:

1. Describe the concepts of digital evidence
2. Prepare and plan for digital forensic investigation
3. Identify digital evidence in the crime scene processing
4. Acquire digital evidence in the crime scene processing
5. Validate, test, and use forensics tools for digital evidence processing
6. Analyze and validate digital evidence
7. Generate digital forensics investigation reports
8. Prepare for testimony and testify in court as the expert witness

V. Course Topics:

1. Digital Evidence
2. Digital Forensic Investigation
3. Evidence Identification
4. Data Acquisition
5. Crime Scene Processing
6. Digital Forensics Tools
7. Digital Evidence analysis and validation
8. Digital Forensics Investigation Reports
9. Expert Testimony in Digital Forensic Investigation

Course Outline and Approximate Schedules

Week		Topics
Week 1	Aug. 19	Digital Forensics
Week 2	Aug. 26	Digital Forensic Investigation Process

Week 3	Sept. 2	Evidence Identification
Week 4	Sept. 9	Data Acquisition
Week 5	Sept. 16	Data Acquisition and Software Tools
Week 6	Sept. 23	Forensics Tools Validation
Week 7	Sept. 30	FTK Imager
Week 8	Oct. 7	Review and Mid-Term Test
Week 9	Oct. 14	Crime Scene Processing
Week 10	Oct. 21	Crime Scene Processing (Continue)
Week 11	Oct. 28	Crime Scene Processing Practice
Week 12	Nov. 4	Digital Evidence Analysis
Week 13	Nov. 11	Digital Evidence Analysis (Continue)
Week 14	Nov. 18	Forensic Tools (FTK)
Week 15	Nov. 25	Forensic Report and Testimony
Week 16	Dec. 2	Expert Testimony Practice
Week 17	Dec. 9	Final Exam

VI. Course Requirements:

Assignments, Lab Projects and Tests

VII. Grading and Evaluation Policies:

Grade Components:

- 25% Assignments
- 25% Lab Projects
- 25% Midterm Test
- 25% Final

Grading Scale

Your final grade will be given using the following scale:

- 90-100 overall AND at least 80% in both exam/quiz and assignment categories ----- A
- 80-89 overall AND at least 70% in both exam/quiz and assignment categories----- B
- 70-79 overall AND at least 60% in both exam/quiz and assignment categories----- C
- 60-69 overall AND at least 60% in both exam/quiz and assignment categories----- D
- 0-59 overall ----- F

Student Progress:

Students are required to check their midterm grade progress report with the instructor. The mid-term grade will be based on the first test and whatever assignments will be due before the mid-term. The tests will be 50% of the mid-term grade and the assignments will be the other 50%.

Late Assignment Policy:

Assignments must be submitted through Blackboard. Each assignment is due at midnight (11:59pm) of the due date. Late assignment will be **reduced 10% points for each day** (*excluding weekends and holidays*) that it is late, up to half of the total points of the assignment. **No assignment that is late for more than three days is accepted.**

Student Progress:

Students are required to check their midterm grade progress report with the instructor. Midterm grade is calculated based on the midterm exam score and the total assignment and quiz scores obtained in the first half of the semester.

VIII. Official E-mail:

An official ECU e-mail is established for each registered student, each faculty member, and each staff member. All university communications sent via e-mail will be sent to this ECU e-mail address.

IX. Department Attendance Policy:

Attendance will be taken during lectures and labs. Unexcused absences in excess of 10% of the scheduled lecture/lab meetings **will result in a one letter grade reduction for the course.** Unexcused absences in excess of 20% of the scheduled lecture/lab meetings **will result in a two letter grade reduction for the course.** Unexcused absences in excess of 30% of the scheduled lecture/lab meetings **will result in a three letter grade reduction for the course.** Students with unusual circumstances should advise the instructor of their situation immediately. Students will be held responsible for all announcements made in class.

X. Classroom Behavior

Behavior conducive for learning is expected in the classroom, which means no excessive talking to other students or sleeping. Also, this includes turning off cell phones and other electronic devices while in class. Electronics devices include laptop computers, unless you are using them to take class notes. If you are using them to take notes you need to get permission from the instructor. Anyone who violates this policy may be asked to leave the classroom for that class period.

XI. Important Dates

The last day to drop the course and other important days can be found at <http://www.ecu.edu/compass/deadlines/2010/fall/>

XII. Academic Integrity:

Students are advised that ECU's Academic Integrity policy will strictly be enforced in this course. The Academic Integrity policy is available at www.academicintegrity.ecu.edu. Questions regarding the policy may be directed to the Office of Academic Integrity.

Students are expected to do all assignments independently, unless explicitly told otherwise. The official definitions of cheating and plagiarism can be found in the Academic Integrity policy.

XIII. Students with Disabilities:

A student with a "disability" may be an individual with a physical or mental impairment that substantially limits one or more major life activities such as learning, seeing or hearing. Additionally, pregnancy or a related medical condition that causes a similar substantial limitation may also be considered a disability under the ADA. If you are registered with the Office of Services for Individuals with Disabilities, please obtain your accommodation letters from the OSID and present them to the course instructor to discuss any academic accommodations you need. If you believe you need accommodation and are not registered with the OSID, please contact the office in the Whitlock Building Room 361 by email at disserv@ecu.edu or by telephone at (859) 622-2933. Upon individual request, this syllabus can be made available in an alternative format.