Course Number	CS 413	Course Title	Digital Foren	Digital Forensics				
Semester Hours	3	Course Coordinator	Henry Hexmo	or				
Catalog Description	Cybersecurity has become a ubiquitous concern well beyond finding solutions to post-mortem threat analysis. The course provides a broad overview of security objectives and will cover fundamentals in confidentiality, integrity, and availability. Lectures will offer a broad range of topics on digital forensics. Students will be trained for an investigation mindset. Contemporary tools and techniques for digital forensics and investigations are reviewed. Security for stationary and mobile platforms are foci of current course in both forensic and active modes. There will be multiple hands-on homework and laboratories as well as a practical project as integral part of this course.							
Textbooks								
Arnes, A. (2018). Digital Forensics, Wiley; ISBN: 9781119262381.								
References								
Course Learning Outcomes								
• Obtain the state-of-the-art knowledge on digital forensic methods including legal concerns								
• Obtain basic skills in digital storage capture and analysis of digital media								
Assessment of the Contribution to Student Outcomes								
Outcome →	1	2 3	4	5	6	7		
Assessed →	X	X X	X	Х	Х	Х		
Prerequisites by Topic								
CS 330 with a grade of C or better or graduate standing.								

CS 413	CS 413 Digital Forensics					
Major Topics Covered in the Course						
1. Di _i Fil	gital Forensics Concepts and Legal issues e System and digital artifact exploration methods	(10 Lectures)				
2. On	line Investigations	(10 Lectures)				
3. Mo	bile Forensics	(10 Lectures)				
4. Mo	 a. Intrusion Detection b. Mobile Phones c. Network Forensics d. Anti-forensics techniques 	(10 Lectures)(3 Lectures)(2 Lectures)(3 Lectures)(2 Lectures)				
NOTE: When course is taken as 500-level credit (CS 591 "Special Topics"), there will be additional requirements such as a research project.						

Latest Revision: Fall 2020