

CFRS 510- 001 Digital Forensics Analysis  
Department of Electrical and Computer Engineering  
George Mason University  
Spring 2017 Syllabus

Administrative Information:

Class time: Thursdays, 7:20pm – 10:00pm  
Location: Fairfax Campus, Nguyen Engineering Building 4457  
Instructor: Brienne Douglas  
E-mail: bdougl4@gmu.edu  
Office hours: by appointment only

Course Description:

TCOM/CFRS 510, Sec 001 (catalog ID 12731) – Digital Forensics Analysis

Explains Computer Forensics crime scene procedures, beginning with initial walk-through and evaluation; identification and collection of potential evidence; preparation of intrusion investigation; aspects of working with investigators and attorneys; reverse engineering with file identification and profiling; application of critical thinking in determination of significance of artifacts; and analysis and reporting of evidence.

Credits: 3

Prerequisite(s): Graduate standing or permission of instructor

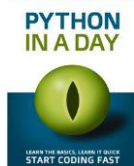
Required Texts:



Title: Digital Evidence and Computer Crime, 3rd edition  
Author: Eoghan Casey  
Publisher: Academic Press  
ISBN: 9780123742681



Title: Digital Forensics Workbook  
Author: Michael K. Robinson  
Publisher: CreateSpace Independent Publishing Platform  
ISBN: 13: 9781517713607



Title: Python In A Day  
Author: Richard Wagstaff  
Publisher: CreateSpace Independent Publishing Platform  
ISBN: 13: 9781490475578

## Grading:

Homework assignments, individual presentations, and exams will be evaluated to create the final grade.

<b>Homework:</b>	20%	<b>Presentation #1:</b>	15%
<b>Midterm Exam:</b>	20%	<b>Presentation #2:</b>	15%
<b>Final Exam:</b>	20%	<b>Participation:</b>	10%

## Schedule

Date	Topic	Reading/Lab Assignment	Assigned/Due Item
26-Jan-17	Course Introduction & Foundations of Digital Forensics	Casey Ch. 1	Assigned: HW1 & Presentation Topics
02-Feb-17	Language of Computer Science Investigation	Casey Ch. 2 Labs 1 – 3	Due: Presentation Topics
09-Feb-17	Digital Evidence in the Courtroom	Casey Ch. 3	Assigned HW2 Due: HW1
16-Feb-17	Presentation #1		Due: Presentation 1
23-Feb-17	Cybercrime Law & Conducting Digital Investigations	Casey Ch. 4 & 6 Labs 4 – 7	
02-Mar-17	Handling a Digital Crime Scene/ Investigative Reconstruction with Digital Evidence	Casey Ch. 7 Labs 8 – 10	Due: HW2
<b>09-Mar-17</b>	<b>Midterm</b>	<b>Midterm</b>	<b>Midterm</b>
<b>16-Mar-17</b>	<b><i>No Class – Spring Break</i></b>		
23-Mar-17	Computer Basics for Digital Investigators	Casey Ch. 15 Labs 11 - 12	Assigned: HW3
30-Mar-17	Applying Forensic Science to Computers	Casey Ch. 16 Labs 13 – 15	
06-Apr-17	Digital Evidence on Windows Systems	Casey Ch. 17	Due: HW3
13-Apr-17	Utilizing Python with Digital Evidence Part 1	Python Book/ Python Labs	Assigned: HW4
20-Apr-17	Utilizing Python with Digital Evidence Part 2	Python Labs	
27-Apr-17	Modus Operandi, Digital Evidence & Technology	Casey Ch. 9 – 10 Labs 17 - 19	Due: Presentation 2 (Part 1)
04-May-17	Violent Crime & Digital Evidence; Sex Offenders on the Internet	Casey Ch. 11 – 12 Labs 20 – 21	Due: Presentation 2 (Part 2) Due: HW 4
<b>11-May-17</b>	<b>Final Exam</b>		<b>Final Exam</b>

### [Black Board Learn & Communication](#)

Blackboard Learn will be used to post material, manage assignments, chat and other activities. You can access Blackboard at: <http://mymasonportal.gmu.edu>.

GMU policy requires that faculty and student course related communication be done via their respective GMU.EDU email addresses. E-mail messages from the Instructor to all class members will be sent to students' GMU email addresses – if you use another email account as your primary address, you should forward your GMU email to that account.

### [Attendance Policy](#)

Students are expected to attend each class, to complete any required preparatory work (including assigned reading) and to participate actively in lectures, discussions and exercises. As members of the academic community, all students are expected to contribute regardless of their proficiency with the subject matter. Students are expected to make prior arrangements with Instructor if they know in advance that they will miss any class and to consult with the Instructor if they miss any class without prior notice.

Departmental policy requires students to take exams at the scheduled time and place, unless there are truly compelling circumstances supported by appropriate documentation. Except in such circumstances, failure to attend a scheduled exam may result in a grade of zero (0) for that exam.

### [Honor Code](#)

Students are required to be familiar and comply with the requirements of the GMU Honor Code. The Honor Code will be strictly enforced in this course and can be accessed at <http://oai.gmu.edu/the-mason-honor-code-2/>.

### [Accommodations for Disabilities](#)

If you have a documented learning disability or other condition that may affect academic performance you should: 1) make sure this documentation is on file with *Office for Disability Services* (SUB I, Rm. 4205; 993-2474; <http://ods.gmu.edu>) to determine the accommodations you need; and 2) talk with me to discuss your accommodation needs.