

Note to Instructor: Replace the placeholder text beneath the headings with the appropriate information for your course.

Please note that all sections, with the exception of "Other Course Information," are required elements.

Basic Course Information

Semester:	Fall 2021	Instructor Name:	Gordon Bailey
Course Title & #:	Cybersecurity Forensics	Email:	Gordon.bailey@imperial.edu
CRN #:	10711	Webpage (optional):	
Classroom:	TBA online	Office #:	7603556150
Class Dates:	TBA	Office Hours:	Zoom appointment
Class Days:	TBA	Office Phone #:	760-355-6150
Class Times:	online	Emergency Contact:	
Units:	3	Class Format:	online

Course Description

This course is an introduction to the methods used to properly conduct a computer forensics investigation beginning with a discussion of ethics, while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Topics covered include an overview of computer forensics as a profession; the computer investigation process; understanding operating systems boot processes and disk structures; data acquisition and analysis; technical writing; and a review of familiar computer forensics tools. (C-ID ITIS 165)

Course Prerequisite(s) and/or Corequisite(s)

None

Student Learning Outcomes

Computer Forensics as a profession
Computing investigation processes
Microsoft operating systems, boot processes and disk structures
Macintosh and Linux operating systems, boot processes and disk structures
The investigator's office
Current computer forensics tools
Digital evidence controls
Crime/incident scene processing
Data acquisition
Computing forensics analysis
Email investigations
Graphic image recovery
High tech reports
Expert witness overview

Course Objectives

1. Define computer forensics.
2. Summarize how to prepare for a computer investigation.
3. Summarize the certification requirements for computer forensics labs.

4. Measure the different ways for proper data acquisition.
5. Classify the rules for proper digital evidence handling.
6. Analyze how data is stored and managed by an operating system.
7. Analyze various computer forensics tools.
8. Validate the evidence during the analysis process.
9. Identify and reconstruct graphics files.
10. Describe the importance of network forensics.
11. Analyze email investigations.
12. Generate a forensic report.
13. Describe guidelines for testifying in court.
14. Maintain a high level of ethical behavior in their work.

Textbooks & Other Resources or Links

Jason Sachowski 2018. *Digital Forensics and Investigations: People, Process, and Technologies to Defend the Enterprise 1*. CRC Press ISBN: 978-1138720930.

Course Requirements and Instructional Methods

Audio Visual

Computer Assisted Instruction

Demonstration

Discussion

Group Activity

Lab Activity

Lecture

Simulation/Case Study

Distance Learning Course Grading Based on Course Objectives

Class Activity

Essay

Mid-Term/Final Exam(s)

Objective

Oral Assignments

Problem Solving Exercise

Quizzes

Skill Demonstration

Written Assignments

Course Policies

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

Required Information --Discretionary language

This is where an instructor explains his/her policy on these matters. Here is some suggested language:

- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class unless otherwise directed by the instructor. **Consider:** specifics for your class/program
- **Food and Drink** are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.
- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- **Children in the classroom:** Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic

Honesty

Required

Language

- **Plagiarism** is to take and present as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to correctly 'cite a source', you must ask for help.
- **Cheating** is defined as fraud, deceit, or dishonesty in an academic assignment or using or attempting to use materials, or assisting others in using materials, or assisting others in using materials, which are prohibited or inappropriate in the context of the academic assignment in question. Anyone caught cheating will receive a zero (0) on the exam or assignment and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to the following:
 - plagiarism
 - copying or attempting to copy from others during an examination or on an assignment;
 - communicating test information with another person during an examination;
 - allowing others to do an assignment or portion of an assignment
 - use of a commercial term paper service

Additional Help – Discretionary Section and Language

The instructor can add the information pertinent to his or her class here. Some suggested language:

- **Blackboard** support center:
<http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543>
- **Learning Labs:** There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing

Lab, and Learning Services (library). Please speak to the instructor about labs unique to your specific program

- **Library Services:** There is more to our library than just books. You have access to tutors in the learning center, study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Required Language: Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6312 if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Required Language: Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Required Language: Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Required Language: Imperial Valley College is dedicated to help students skillfully discover, evaluate, and

use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>

Other Course Information

[Optionally, include other necessary information.]

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar