

**Community College of Philadelphia**  
**COMPUTER TECHNOLOGIES DEPARTMENT**  
**CIS 261- CYBER INVESTIGATION SYLLABUS**

**INSTRUCTOR INFORMATION**

INSTRUCTOR: **Dr. B. Dike-Anyiam**  
OFFICE LOCATION: C3-1H  
OFFICE HOURS: Tue & Thu: 8:00-9:35 AM | Wed: 8:00 – 10:50 AM  
EMAIL ADDRESS: [bdikeanyiam@ccp.edu](mailto:bdikeanyiam@ccp.edu)  
OFFICE PHONE NUMBER: 215-496-6139  
PREFERRED METHOD OF CONTACT: [bdikeanyiam@ccp.edu](mailto:bdikeanyiam@ccp.edu)

**MESSAGES/EMAILS:** The best way to contact me is **e-mail in Canvas**. Please do not send me duplicate emails throughout the day with the same questions. I answer all emails in the order received. I respond to all emails, so please wait for me to respond.

**Note: I do not work on Weekends.** Therefore, I urge you to read tasks details in Canvas as early as possible during the week and let me know if you have any questions. The earlier you read over the tasks details, the more time you would allow for me to answer any questions you may have.

**Phone Call:** If you need me to call you, please send me an email requesting the call. Make sure you include your phone number on the email. When placing calls to my students, I prefer to call from my CCP office phone or a private number.

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**COURSE INFORMATION**

COURSE: CIS 261: Cyber Investigation  
SEMESTER: Spring, 2018  
CRN #: 19284  
SECTION #: 001  
CLASS MEETING DAY(S): TR  
CLASS MEETING TIME: 9:40 AM - 12:45 PM  
CLASSROOM LOCATION: Center for Business & Industry, **C3-18**  
CREDIT HOURS: 4

**COURSE DESCRIPTION:** This course focuses on the principles and hands-on technical skills to provide students with a solid foundation in the field of cyber investigation. Students will learn how to collect, preserve, examine and analyze cyber evidence for possible use in civil or criminal cases. Students will also learn the role of evidence in detecting and prosecuting cyber crimes, cyber terrorism,

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traditional and violent crimes, civil cases, fraud and other related offences. Discussions and hands-on activities familiarize students with relevant cyber investigative techniques. Prerequisite: CIS 155.

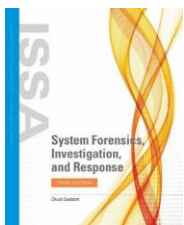
**COURSE Learning Outcomes and Methods of Assessment:**

To ensure valid assessment of student learning and consistency across sections, exams will include common questions that provide direct evidence of student learning. The results of these assessments will be analyzed in accordance with the departmental assessment plan.

Student Learning Outcome
Upon successful completion of the course, students will be able to:
1. Identify when to initiate an investigation and at what point to involve law enforcement.
2. Retrieve and seize cyber evidence from computer systems without contamination.
3. Explain how/where data can be hidden and justify the use of particular cyber investigation tools.
4. Explain laws relevant to cyber investigation and classify various forms of computer crime/abuse and the relevant evidence.

**Course Materials Required:**

**TEXTBOOK/MATERIALS**



- 1 **iLabs:** Computer Hacking Forensics Investigator (CHFI) v9 by EC-Council and
  - 2 System Forensics, Investigation, and Response by Chuck Easttom, Edition: 3rd, Copyright year: 2019  
Print ISBN: 9781284121841, eText ISBN: 9781284152715  
  
Publisher: Jones & Bartlett Learning
- USB Flash Drive 8 GB and above for storage

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**STUDENT ASSESSMENT \_ GRADING POLICY**

<b>90-100</b>	<b>A</b>
<b>80-89</b>	<b>B</b>
<b>70-79</b>	<b>C</b>
<b>60-69</b>	<b>D</b>
<b>BELOW 60</b>	<b>F</b>

**Grading:**

<b>Grading</b>	<b>Points</b>
<b>Quiz/Exams</b>	<b>50%</b>
<b>Projects</b>	<b>50%</b>
<b>Total</b>	<b>100%</b>

**TENTATIVE COURSE OUTLINE**

\*\*\*Subject to change at the professor's discretion\*\*\*

<b>Wee k</b>	<b>Topic</b>	<b>Quiz/Exam/Pro ject Due</b>
W1	<b>Reading:</b> Introduction to Forensics & Overview of Computer Crime <b>iLab:</b> iLabs Overview	
W2	<b>Reading:</b> Forensic Methods and Labs <b>iLab:</b> Computer Forensics Investigation Process	
W3	<b>Reading:</b> Collecting, Seizing, and Protecting Evidence <b>iLab:</b> Understanding Hard Disks and File Systems	<b>Quiz</b>
W4	<b>Reading:</b> Understanding Techniques for Hiding and Scrambling Information <b>iLab:</b> Defeating Anti-forensics	

**Community College of Philadelphia**  
**COMPUTER TECHNOLOGIES DEPARTMENT**  
**CIS 261- CYBER INVESTIGATION SYLLABUS**

W5	<b>Reading:</b> Recovering Data <b>iLab:</b> Data Acquisition and Duplication	<b>Project1</b>
W6	<b>Reading:</b> Email Forensics <b>iLab:</b> Investigating Email Crimes	
W7	<b>Reading:</b> Windows Forensics <b>iLab:</b> Operating System Forensics	<b>Mid Term Exam</b>
W8	<b>Spring Break!</b>	
W9	<b>Reading:</b> Linux Forensics <b>iLab:</b> Database Forensics	
W10	<b>Reading:</b> Mobile Forensics <b>iLab:</b> Mobile Forensics	<b>Project2</b>
W11	<b>Reading:</b> Network Forensics <b>iLab:</b> Network Forensics	
W12	<b>Reading:</b> Incident and Intrusion Response <b>iLab:</b> Investigating Web Attacks	
W13	<b>Reading:</b> Incident and Intrusion Response <b>iLab:</b> Malware Forensics	<b>Project3</b>
W14	<b>Reading:</b> Cloud Forensics <b>iLab:</b> Cloud Forensics	
W15	<b>Final Exam <u>Week</u></b>	<b>Final Exam</b>

**\*\*Note:** **Reading:** From System Forensics, Investigation, and Response  
**iLab:** From Computer Hacking Forensics Investigator

### **COURSE ACTIVITIES:**

You are encouraged to contribute to discussions and to ask questions about the material. I recommend that you dedicate between 10 to 15 hours at least per week to work on this course.

- All Quiz, Tests, Exams, project, etc. have deadlines.

### **Student Expectations**

- For each chapter discussed in class, you will be responsible for reading the entire chapter and completing assignments if any.
- **NO LATE / MAKE UP ASSIGNMENTS, NO MAKEUP EXAMS**

### **CCP E-MAIL ACCOUNT**

- Every student enrolled at the college should be able to access their college email account.
- Communication to the instructor for the course should be by way of your Canvas email/CCP.

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**COMPUTER TECHNOLOGIES DEPARTMENT**  
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- It is recommended that you check your email (CCP & Canvas) frequently as it allows you to stay informed of all college communications.
- Please read the following information on how to login to [CANVAS](#).

### **ACADEMIC DISHONESTY**

Violations of academic integrity can include, but are not limited to, cheating and plagiarism. Cheating is an intentional effort at deception or gaining of an unfair advantage in completing academic work. Plagiarism is the act of appropriating the work of another person and passing it off as one's own. Any student who assists another in an activity that constitutes a violation of academic integrity is also responsible and accountable for such a violation. Please refer to: "**ACADEMIC INTEGRITY POLICY & PROCESS**" document in the file section of Canvas.

Violations of academic integrity will open a student to disciplinary action as described in the [Student Code of Conduct](#).

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### **ATTENDANCE**

- Attendance to every class is **mandatory**
- Distance Education students are required to log into Canvas for a minimum of twice a week.
- Failure to keep up with your assignments (no class participation/lack of class participation) is also considered as being absent; therefore, just logging into Canvas and you do not submit your assignments, you will be marked absent for that week.
- One week of missing assignments is equivalent to **4** absences.
- **Unsatisfactory** attendance will be entered for all students who miss **2** sessions worth of assignments and/or have a class average less than **70%**.
- The school's policy is to drop students from class if they have 4 absences. I will adhere to the school's policy.

### **FYI**

### **COURSE WITHDRAWAL/ INCOMPLETE GRADE / CLASS CONDUCT / ACCEPTABLE USE POLICY**

- [Course Withdrawal /Incomplete Grade](#):
- Extend to your fellow classmates as well as the instructor the courtesy of a positive attitude in the learning environment.
- All electronic devices are to be set to silent during lecture, test, exam, or class presentation.
- If you must take a call, please excuse yourself and handle your call in a courteous manner outside of the classroom.

**Community College of Philadelphia**  
**COMPUTER TECHNOLOGIES DEPARTMENT**  
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- **No Head Phones Should Be Worn In Class!!!**
- **No Texting In Class!!!**
- If you are caught texting in class during a quiz or exam, I will assume you are cheating and you will receive a **ZERO** (0).
- **No Movie Watching In Class!!!**
- If you do not take the final exam or are caught cheating on the final exam, you will receive a failing grade for the final exam.
- Any form of cheating will result in a **ZERO** (0) for the assignment.
- Cheating will not be tolerated and will be reported appropriately.

**CENTER ON DISABILITY**

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- Students who believe they may need an accommodation based on the impact of a disability should contact me privately to discuss their accommodation form and specific needs as soon as possible, but preferably within the first week of class. If you need to request reasonable accommodations, but do not have an accommodation form, please contact the Center on Disability, room BG-39, phone number 215-751-8050.
- Please be sure to contact the Center on Disability if applicable.

**TUTORING SERVICES**

- Mavis Pogue, CIS Instructor
- Central Learning Lab will offer workshops and individualized tutoring
- Bonnell Building B1-28

**TO STUDENTS RECEIVING TITLE IV FINANCIAL AID FUNDS**

Effective Fall 2000, students who receive title IV financial aid funds and who withdraw from all their classes before completion of 60% of the term, i.e., the 10<sup>th</sup> week (or its equivalent for summer terms) may be required to return all or a portion of their financial aid award. If it is determined that funds must be returned to the financial aid programs, students must make satisfactory payment arrangements within 45 days of notification or they become ineligible for further financial aid.

**STUDENT ACADEMIC COMPUTER CENTER GUIDELINES (Computer Labs)**

- No FOOD or DRINKS in Computer Labs or Computer Classrooms
- Please make sure that you adhere to all of the guidelines for using the computer.
- Be mindful of the hours and locations for all academic computer centers at the college.
- You can also pick up a handout of the guidelines at the check in desk.

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**COMPUTER TECHNOLOGIES DEPARTMENT**  
**CIS 261- CYBER INVESTIGATION SYLLABUS**

**INCLEMENT WEATHER INFORMATION/ SCHOOL CLOSING**

- Please make sure that you sign up for e2Campus. This an emergency notification service that will keep you updated to college closings as well as inclement weather closings. (Link provided on [MyCCP homepage](#)).
- Day class cancellation # 238
- Evening class cancellation # 2238



e2Campus is a service designed to alert the entire Community College of Philadelphia community via text messages to individual cell phones and/or email when situations arise on campus that affect the ability of the campus -- students, faculty and staff -- to function normally.

**For more information on the degree programs & certificates offered by the Computer Technologies Department, visit the following links provided:**

- [Computer Information Technology-Information Technology](#)
- [Computer Science](#)
- [Network and Systems Administration Proficiency Certificate](#)
- [Computer Programming and Software Development Proficiency Certificate](#)
- [Receptionist and Office Clerk Proficiency Certificate](#)