Technology Department
Computer Forensics
CMP 250-D01
Syllabus: Spring 2017

Instructor:
Curtis Satterfield
Office Hours: Monday 10:00-12:00, Tuesday 2:00 – 3:00, Wed 10:00 – 12:00 or by appointment.

Office: MTC 203
Phone: (410) 334 – 2834
Email: csatterfield@worwic.edu
Email is the fastest way to get in touch with me and is preferred.

Class time: Online
Final Exam: The Final Exam will be available in the testing center from 10:00am Thursday April 20th until 4:30PM Thursday April 27th. Please refer to testing center policies and hours.

COURSE DESCRIPTION
This course covers the principles of computer forensics. Students learn how to properly acquire and process data in a high tech investigation. Various data acquisition techniques, along with proper documentation and handling procedures, are covered. Hours: 26 lecture and 26 laboratory. Prerequisite: CMP 150, CMP 225 or permission of the department head. Laboratory fee: $25. Usually offered in the spring.

Online Section Notice:
The online version of this course requires significant time commitments from the student. The download, installation, configuration, and use of all necessary software to complete the required labs in this course is the responsibility of the student. As such, the student should expect to spend 10 – 15 hours per week on this course. The student should also be familiar with using the Windows operating system for routine tasks such as application installation, file system navigation, connecting to a network (wired or wireless), and using Microsoft Office.

REQUIRED MATERIALS
TEXT:

High speed Internet
Office Suite for typing labs

Skills:
- Knowledge of the Internet and computers.
- Knowledge of the Windows operating system.
- Ability to download and install software independently.
- Ability to work independently and in groups with motivation to complete assignments on a timely basis.
- Ability to access the Blackboard Course Management System.

Blackboard Disclaimer:
Blackboard is being used as the primary tool for this course. To access course content in Blackboard you need to have access to a computer with an Internet connection. Please follow these directions to access course syllabi and any other materials posted.

Login Information:
1. From the Wor-Wic home page, point to “Quick Links” (top –right) and then click “Blackboard Login.”
2. Enter your Wor-Wic user ID and password (same as your Wor-Wic email user ID and password).
3. Click on CMP 107 then click on “Course Content” and then select the folder titled “Start Here”.
4. Inside the Folder titled Start Here click on the document titled “Start Here”.

<table>
<thead>
<tr>
<th>Course Objectives</th>
<th>Assessment Goals</th>
<th>Assessment Strategies</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Explain the role of computer forensics in modern society. GEO 7</td>
<td>Identify various types of computer crime.</td>
<td>Exam questions, lab exercises, quizzes and homework. *</td>
</tr>
<tr>
<td></td>
<td>Identify crimes that require computer forensics investigators.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Determine the roll(s) of a computer forensics investigator.</td>
<td></td>
</tr>
<tr>
<td>2. Demonstrate proper data acquisition techniques GEO 7</td>
<td>Examine various tools used by an investigator in the lab.</td>
<td>Exam questions, lab exercises, quizzes and homework. *</td>
</tr>
<tr>
<td></td>
<td>Explain proper techniques for acquiring data in the field and the lab.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>3.</td>
<td>Investigate criminal activities using forensics tools and procedures. GEO 7</td>
<td>Describe proper procedures for processing a crime scene. Describe proper procedures for forensics investigation. Describe proper procedures used by first responders. Identify key steps in a forensics investigation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exam questions, lab exercises, quizzes and homework. *</td>
</tr>
<tr>
<td>4.</td>
<td>Investigate cyber-attacks on organizational infrastructure using forensics tools and procedures. GEO 7</td>
<td>Explain the uses of various forensics tools and procedures in a forensics lab. Explain proper procedures for investigation of infrastructure attacks. Generate appropriate reports for investigators.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exam questions, lab exercises, quizzes and homework. *</td>
</tr>
<tr>
<td>5.</td>
<td>Use modern forensics tools to recover and process crime scene data. GEO 7</td>
<td>Recover deleted files. Recover and decrypt encrypted files. Build a case file based on evidence processed during an investigation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exam questions, lab exercises, quizzes and homework. *</td>
</tr>
<tr>
<td>6.</td>
<td>Demonstrate proper procedures for high tech investigations. GEO 7</td>
<td>Write proper investigation reports. Explain proper procedures for expert testimony. Examine ethics for expert witnesses in a high tech investigation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exam questions, lab exercises, quizzes and homework. *</td>
</tr>
</tbody>
</table>

*A required information literacy assignment addresses these outcomes, will be graded with a rubric and comprises 10% of the course evaluation. GEO Objectives 1, 2, 3, and 7*
Online Course Orientation:
There is an online orientation for this course that covers how this online class works. It is your responsibility to read and understand the orientation. You are required to take the orientation quiz after reading the material on Blackboard. You will not be able to access any other class material until you take this quiz. Failure to take the quiz or failing to pass the quiz will result in you being dropped from the class.
If you are new to Blackboard I recommend you complete the tutorial located at: http://www.worwic.edu/Academics/DistanceEducation/StudentTutorial/BbTutorial.htm
This class is a combination of text material, assignments, examinations and participation in the online class discussions. Material is presented through the textbook and the Course Management System. Active participation is expected and is considered in the student’s final grade.

Class assignments must be submitted by the assigned due date. Technology is not always reliable; therefore, count on problems with computers, and plan your assignments and exams accordingly. Since a large portion of communication for this course is written, it is essential that proper writing practices are used for email as well as discussion postings:

- **Emails include your name, course and section number!**
- Emails begin with a salutation and end with a closing.
- Sentences begin with a capital letter, and end with a period.
- Proper paragraphing should be used.
- Only complete sentences should be used, unless presenting a list.
- Text messaging shorthand such as “RU” instead of “are you” may not be used. Any messages containing text shorthand will be ignored and/or removed from the discussion boards.

COURSE GUIDELINES
The student will be given two hours of laboratory practice per week and extensive reading assignments to be completed outside of lab time. This is an online course and as such you will be expected to complete the reading, and lab assignments each week. Hands on laboratory assignments will reinforce concepts covered in the readings and lecture. If an emergency prevents the student from accessing class material, the student is still responsible to obtain and complete missed course work. Students who must take an exam or quiz at other than the scheduled time must obtain prior permission from the instructor.

Tentative Schedule*

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapter(s)</th>
<th>All assignments, quizzes, and labs for the week due no later than:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1,2</td>
<td>1/23/17</td>
</tr>
<tr>
<td>2</td>
<td>3,4</td>
<td>1/30/17</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>2/06/17</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
<td>2/13/17</td>
</tr>
<tr>
<td>5</td>
<td>7</td>
<td>2/20/17</td>
</tr>
<tr>
<td>6</td>
<td>8</td>
<td>2/27/17</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th></th>
<th></th>
<th>3/13/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>10</td>
<td>3/20/17</td>
</tr>
<tr>
<td>9</td>
<td>11</td>
<td>3/27/17</td>
</tr>
<tr>
<td>10</td>
<td>12</td>
<td>4/03/17</td>
</tr>
<tr>
<td>11</td>
<td>13</td>
<td>4/10/17</td>
</tr>
<tr>
<td>12</td>
<td>14</td>
<td>4/17/17</td>
</tr>
<tr>
<td>13</td>
<td>15, 16</td>
<td>4/24/17</td>
</tr>
</tbody>
</table>

*Subject to change

**COURSE EVALUATION**

The grade will be based on 1000 points which will be divided as follows:

- Semester Project/ELA = 150 points
- Laboratory Exercises = 500 points
- Mid-Term Exam = 150 points
- Final Exam = 200 points

**TOTAL** 1,000 points

**Letter grade will be assigned as follows:**

- A = 900-1000 points
- B = 800-899 points
- C = 700-799 points
- D = 600-699 points
- F = Less than 600 points

**Exam Policy:**

You are responsible for knowing when exams and evaluations will be administered. Exams will only be administered at the scheduled date and time unless prior arrangements have been made. If you cannot contact me prior to missing an exam you must provide written documentation (doctor’s note, hospital documentation) to be allowed to make up the exam. NO MAKE-UP FINAL EXAMS except for extreme emergencies.

**Assignment Policy:**

All assignments MUST be submitted on time. **NO CREDIT FOR LATE OR INCORRECTLY SUBMITTED WORK.** If you do not do your assignments, you will not be able to keep up with the class. I will not slow down to pick up students who are not committed to making every class and submitting assignments when due. No extra credit and no make-up work will be allowed. If you fail to do or turn in your assignments in a timely manner you will not get credit for that missed work and you will not be able to “make it up”.

**Semester Project/Electronic Literacy Assignment:**

Electronic Literacy Assignment:
- Turn in paper by 11:59pm April 17th
- No late papers will be accepted!
Attendance Policy:
You are expected to access the class material on Blackboard at least 3 times per week to check for announcements or changes to the course material.

Academic Honesty Policy:
Students are required to maintain a high level of academic performance. All work submitted to the instructor will be regarded as the work of the student taking the course. Cheating and plagiarism are defined in Wor-Wic’s Student Conduct Policy found in the College Catalog. Infractions of this policy will result in disciplinary action including failure of the assignment, test, or the course.

Acceptable Computer Use Policy
All students logging into Blackboard affirm that they understand and agree to follow Wor-Wic Community College policies regarding academic integrity and the use of College resources as described in the college catalog. Wor-Wic Community College considers the following as violations of the computer usage policy:

- Using the campus computing network and facilities to violate the privacy of other individuals
- Sharing of account passwords with friends, family members or any unauthorized individuals

Emergency Information Statement
In the event of severe inclement weather or other emergency, information about the closing of the college will be communicated via e2Campus and the College's website. Faculty will communicate with students about their courses and course requirements, such as assignments, quiz and exam dates, and class and grading policies, via Blackboard. Students will be responsible for completing all assignments in accordance with class policies.

Services for Students with Disabilities
Wor-Wic provides reasonable accommodations for students with disabilities, in compliance with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. If you are in need of accommodations, please contact the counseling office at (410) 334-2899. For more information, see Wor-Wic's Services for Students with Disabilities web page.

Sexual Violence Disclosures
Wor-Wic Community College seeks a campus free of sexual violence which includes sexual harassment, domestic violence, dating violence, stalking, and/or any form of sex or gender discrimination. Please be aware that if a student discloses a personal experience verbally or in writing as a Wor-Wic student to a faculty or staff member, the employee cannot maintain confidentiality and has the mandatory responsibility to notify one of the college’s Title IX coordinators. However, if you’d like to make a confidential disclosure of any such violence, you can contact Wor-Wic’s director of counseling (X-2900) or you can contact the Life Crisis Center at 410-749-HELP or 2-1-1.
Instructor reserves the right to modify this syllabus during the semester to better facilitate students’ learning needs.

Syllabus sign-off – After reading this syllabus go to the Blackboard discussion labelled “Syllabus Sign-Off”. In the forum create a new thread titled with your name that states “I have received, read, and understand the course syllabus” Be sure to include your name in your post.