

South Portland, Maine 04106
Computer Information Security

Title: Computer Forensics

Catalog Number: INSC 170

Credit Hours: 4

Total Contact Hours: 60

Lecture (or Lab): Lecture/Lab

Instructor: Wendy Plourde

Office Hours – Location: CSEC 24
Tues & Thurs 12:30-1:30

Contact Information: wplourde@smccme.edu

Course Description

Computer forensics course prepares students to acquire, investigate, and report on the electronic evidence. This Computer Forensics specialization can help you master leading computer forensic software applications and gain an understanding of the diversity of computer crime and the laws and principals concerned with computer forensics and electronic evidence. You'll also learn how to discover data that resides in a computer system, and recover deleted, encrypted, or damaged file information. **Prerequisite(s)** Math 050, ENGL 075

Course Objectives

In this Computer Forensics course students will acquire the knowledge to conduct a digital investigation, analyze electronic data and write reports on a digital investigation.

After successfully completing the course, the student will be able to:

- Articulate the Science of Digital Forensics
- Describe Data Acquisition
- Identify Computer Forensics Tools
- Apply Computer Forensics Tools in an investigation
- Analyze electronic evidence
- Writing for High Tech Investigations

Course Outline

Week 1	Chapter 1: Understanding the Digital Forensics Profession and Investigations MindTap Lab Chapter Reading quiz in Blackboard
Week 2	Chapter 2: The Investigator's Office and Laboratory MindTap Lab Chapter Reading quiz in Blackboard
Week 3	Chapter 4: Processing Crime and Incident Scenes MindTap Lab Chapter Reading quiz in Blackboard
Week 4	Chapter 5: Working with Windows and CLI (<i>command line interface</i>) systems MindTap Lab Chapter Reading quiz in Blackboard

Week 5	Chapter 6: Current Computer Forensics Tools MindTap Lab Chapter Reading quiz in Blackboard
Week 6	Chapter 7: Linux and Macintosh File Systems MindTap Lab Chapter Reading quiz in Blackboard
Week 7	Mid Term Exam
Week 8	Chapter 8: Recovering Graphics Files MindTap Lab Chapter Reading quiz in Blackboard
Week 9	Chapter 9: Computer Forensics Analysis and Validation MindTap Lab Chapter Reading quiz in Blackboard
Week 10	Chapter 10: Virtual Machine and Cloud Forensics MindTap Lab Chapter Reading quiz in Blackboard
Week 11	Chapter 11: Live Acquisitions and Network Forensics MindTap Lab Chapter Reading quiz in Blackboard
Week 12	Chapter 12: Email investigations MindTap Lab Chapter Reading quiz in Blackboard
Week 13	Chapter 13: Cell Phone and Mobile Device Forensics MindTap Lab Chapter Reading quiz in Blackboard
Week 14	Review and prepare for the final exam
Week 15	Final Exam
Week 16	Final Exam

Course Requirements

This course will use BlackBoard with links to MandTap. Every week there will be the Chapter reading/videos, lab assignment, review of tools. Students will have one investigative assignment for a final exam to be done in groups. This course has weekly hands-on, in class activities and students are expected to participate in all activities.

Student Evaluation and Grading

Participation/attendance	10%
Quizzes	20%
Labs	25%
Midterm	20%
Final	25%

A	93 - 100	C+	77 - 79
A-	90 - 92	C	73 - 76
B+	87 - 89	C-	70 - 72
B	83 - 86	D+	67 - 69
B-	80 - 82	D	63 - 66
		F	62.999

Text, Tools and / or Supplies

Guide to Computer Forensics and Investigations, **Bill Nelson**,

Amelia Phillips Highline Community College, **Christopher Steuart**

Print option: **ISBN 9781305176089**, Standalone eBook option – MindTap. **ISBN 9781337393614**

Attendance Policy

Regular and prompt attendance will contribute to your success in this class. Missing 3 consecutive classes will result in being recorded as a no-show and you will be dropped from the class. 5 or more absences will be recorded as a zero in Participation/Attendance portion of your grade may result in academic failure. If you come in after the start of the class you may be marked as absent. If you frequently leave the class (i.e. In the middle of a lecture) you will be marked as absent.

End-of-Course Evaluation

Students complete evaluations for each course attended at SMCC. Evaluations are submitted online and can be accessed through the student portal. Students can access the course evaluations beginning one week before the end of classes. The deadline for submission of evaluations occurs Monday at 5 p.m. following the last day of the class. You will receive an e-mail to your student e-mail account when course evaluations are available.

ADA Syllabus Statement

Southern Maine Community College is an equal opportunity/affirmative action institution and employer. For more information, please call (207) 741-5798. If you have a disabling condition and wish to request accommodations in order to have reasonable access to the programs and services offered by SMCC, you must register with the Disability Services Coordinator, Sandra Lynham, who can be reached at 741-5923. Further information about services for students with disabilities and the accommodation process is available upon request at this number. Course policies about online testing are modified to suit each individual's accommodations.

The Learning Commons:

The library, tutoring and writing centers, and open study space are located on the second floor of South Portland's Campus Center and in the Midcoast's LL Bean Learning Commons and Health Science Center. Here you can find free academic support through individual and online tutoring, information literacy/research librarians, and professional academic strategy/planning mentoring. There are many desktop and laptop computers as well as printers, reserve textbooks, and other academic tools available for use within the Learning Commons. Services are offered by appointment or as drop-in assistance. To access services, visit My Learning in My Maine Guide. Students consistently report that the Learning Commons is an inviting and friendly place to seek academic support or study. Those who make use of the Learning Commons regularly have been shown to be more likely to succeed—take advantage of this exceptional resource for this, or any of your classes.

SMCC Pay-for-Print Policy

Each semester students receive a \$20 printing credit. The balance resets at the end of the semester and any remaining credits are removed. The College's pay-for-print system monitors printing on all printers (including those in general access labs, library printers, Tutoring Services, Campus Center Lounge and technology labs). Be sure to log OUT of the system when you've finished your printing, to prevent unauthorized access to your

account. Students can check the number of pages they have printed by using the Printing Balance tool available on SMCC computers (located in the lower right corner of the screen, near the clock). Departments with work study students who need to print documents for the department should contact the Help Desk at 741-5696 to have a special account set up. To find ways to reduce your printing charges, please go to the IT Help tab on My SMCC. If you have questions about the pay-for-printing policy or your printing charges, please contact the Help Desk at 741-5696 or send an e-mail to helpdesk@smccme.edu.

Refunds

Print jobs are eligible for a refund in the event of mechanical or electronic error on the part of the printer, print server, or software used to submit the job. Jobs are not eligible for a refund in cases where the job was not set up correctly, was submitted multiple times, or the student is not satisfied with the result. To request a refund, please bring the offending print to the IT Department in the basement of the Ross Technology Center. Refunds will be granted in the form of a credit to the student's account.

Add-Drop Policy

Students who drop a course during the one-week "add/drop" period in the fall and spring semesters and the first three days of summer sessions receive a 100% refund of the tuition and associated fees for that course. Please note any course that meets for less than the traditional semester length, i.e., 15 weeks, has a pro-rated add/drop period. There is no refund for non-attendance.

Withdrawal Policy

A student may withdraw from a course only during the semester in which s/he is registered for that course. The withdrawal period is the second through twelfth week of the Fall and Spring semesters and the second through ninth week of twelve-week Summer courses. This period is pro-rated for shorter-length courses, usually 75 percent of course meeting times; please check with the Registration Office. To withdraw from a course, a student must complete and submit the appropriate course withdrawal form, available at the Registration Office. This process must be completed either in person or by using SMCC e-mail accounts.

Plagiarism Statement

If an instructor suspects that a student has knowingly committed a violation defined in the Maine Community College System Policy on Student Grade Appeals and Academic Misconduct, the instructor has the authority to review the alleged misconduct and determine the grade that the student should receive for the assignment and the course. The instructor may assign a failing grade for the assignment or course and may require the student to complete additional work for the course. The instructor may consult with the department chair and/or the College's chief academic officer prior to making such decisions. If a student seeks to challenge an instructor's determination, the student should submit a grade appeal. Grade appeal forms are available in the Advising Office on the South Portland Campus or in the administrative offices in the Learning Commons on the Midcoast Campus. An instructor may also refer the matter to the College's disciplinary officer for review under the procedures of the MCCS Student Code of Conduct