



## **REQUIRED TEXT, REFERENCES, AND MATERIALS**

### **Texts:**

Mobile Forensic Investigations

**ISBN-13: 978-0-07-184363-8**

**ISBN-10: 07-184363-9**

**References:** None

**Materials:** Portable electronic storage item (e.g. USB Thumb Drive), and note taking materials. You **must** have access to a computer with Broadband Internet (2 Mbps upload preferred) access and the ability to download and install required software.

**Uniform/Tools:** Compatible External Hard Drive (80 GB Minimum) - optional

**Estimated Cost for Text(s):** \$ 60.00

**Estimated Cost for Materials:** \$ 15.00

**Estimated Cost for Uniform/Tools:** \$ 0.00

**Total Estimated Cost:** \$ 78.00

| <b>OBJECTIVE NUMBER</b> | <b>COURSE OBJECTIVES</b>   | <b>ASSESSMENT OF OBJECTIVES</b> |
|-------------------------|--|---------------------------------|
| E1                      | E.1 evaluate and document IT security risks and make recommendations for mitigation  | LABS                            |
| F3                      | F.3 interact socially in a professional manner in both IT technical and non-technical professional and/or social functions | LABS                            |
| M5                      | M.5 utilize forensically sound tools and procedures to collect, document or analyze digital evidence                       | LABS<br>Final Exam*             |

*Aspects of the course objective assessments may be used in the university's assessment of student learning. If applicable, an asterisk (\*) above indicates this assignment is used in the university assessment program.*

## **GRADING**

Grades will be assigned according to the completion and quality of the following assignments:

|                               |             |
|-------------------------------|-------------|
| Assignments .....             | 30%         |
| Labs.....                     | 30%         |
| Portfolio .....               | 5%          |
| Professional Development..... | 5%          |
| Participation.....            | 10%         |
| Midterm Exam.....             | 10%         |
| *Final Exam.....              | 10%         |
| <b>Total .....</b>            | <b>100%</b> |

| <b>OSU Institute of<br/>Technology<br/>Grading Scale</b> |          |
|--|----------|
| A =  | 90%-100% |
| B =  | 80%-89%  |
| C =  | 70%-79%  |
| D =  | 60%-69%  |
| F =  | 0%-59%   |

*\*The student's grade for the Final Exam will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade.*

Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.

Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

## **AUTHORIZED TOOLS**

*Students may use any/all course materials, including books and notes, while participating in classroom activities. All quizzes and written assignments are to be completed independently; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty.*

## **LATE WORK**

**Instructor Policy: Late work will not be accepted.** Turning in your properly-executed work early is always acceptable. All exams, assignments, papers and projects must be completed and submitted by the specified due date; late work will not be accepted after the due date unless prior authorization is given. It is the student's responsibility to maintain and protect all their work and electronic files. Class materials should be provided to the instructor, if requested. Exceptions for late work are the same that would be encountered in the workforce: jury duty, military duty, hospital stay, and required activities in another department. It is your responsibility to notify your instructor to make alternate arrangements in advance if these events cause you to miss class. Make-up exams, for reasons listed above, will only be given at times arranged with the instructor and may be different from those originally administered to the class. A late penalty may be assessed against the grade.

## **TESTING**

All testing will take place online and will be open book/open note. Students are to work independently and are not to collaborate with others for answers to any of the questions. A proctor will not be required unless specified by the instructor. If a student expects to miss a test they must notify the instructor in advance. If a student misses a test because of an emergency the student must provide documentation. The decision of whether to allow a student to make up a test is at the discretion of the instructor.

## **UNIVERSITY & COURSE EXPECTATIONS**

It is the responsibility of each OSUIT student to read, abide by and maintain a copy of the syllabus for this course. Syllabi are available on the OSUIT website.

Students understand that excerpts or portions of their work may be utilized for institutional assessment purposes. The purpose of institutional assessment is for verification of student learning and program improvement. Every effort will be made to keep this information confidential.

## **AMERICANS WITH DISABILITIES ACT (ADA)**

According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Academic Accommodations/LASSO Center. Please advise the instructor of your disability as soon as possible, and contact The LASSO Center, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. The LASSO Center is located on the 3rd floor of the Noble Center. You may call [918.293.4855](tel:918.293.4855) for more information or fax documentation to [918.293.4853](tel:918.293.4853).

## **ACADEMIC DISHONESTY**

Academic dishonesty or misconduct is neither condoned nor tolerated at OSUIT. Any student found guilty of academic dishonesty or misconduct shall be subject to disciplinary action. Academic dishonesty and/or misconduct includes, but is not limited to, the following actions: (1) Plagiarism: the representation of previously written, published, or creative work as one's own; (2) Unauthorized collaboration on projects; (3) Cheating on examinations; (4) Unauthorized advance access to exams; (5) Fraudulent alteration of academic materials; (6) Knowing cooperation with another person in an academically dishonest undertaking. Students are required to actively protect their work against misuse by others. For details, refer to The OSUIT Student Handbook (Student Rights and Responsibilities Governing Student Behavior) available online at [http://www.osuit.edu/academics/forms/student\\_rights\\_responsibility.pdf](http://www.osuit.edu/academics/forms/student_rights_responsibility.pdf).

## WEEKLY CURRENT EVENT ARTICLES

**All students are required to participate in the discussion board Weekly Current Articles. THIS WILL BE COUNTED AS PARTICIPATION.** Every week students are to provide a brief overview (2-5 sentences) and a link to an article about a current (less than 2 months old) event in Jobs/Industry/ etc in Telecommunications, Information Technology or Cyber Security. Students can comment about other student's post in addition to posting their own. Failure to post will count against the attendance/participation grade for the week. Please note that the OSU IT attendance policy will apply.

**NO POLITICAL POSTINGS OF ANY KIND ARE ALLOWED. POSTING POLITICAL ARTICLES (EVEN IF THEY ARE RELATED TO TECHNOLOGY) WILL RESULT IN A ZERO (0) GRADE FOR THE WEEK.**

### Attendance Policy for Online courses:

A primary component of OSUIT's Mission is: "to prepare and sustain a diverse student body as competitive members of a world-class workforce." Regular and consistent attendance not only aids in academic success, dependable attendance is a requirement in today's real-world employment; therefore, regular and consistent attendance is a requirement in all OSUIT courses.

### Definition:

Absent: Failing to *actively participate* in online coursework during a standard week timeframe for a given course.

- A. Students must demonstrate attendance through *active participation* in the course at least once every seven days. Simply logging into the course does not constitute active participation.
- B. Active participation is defined as the completion of required activities such as:
  - 1. Completion of online quizzes or exams
  - 2. Submission of assignments
  - 3. Participation threaded discussions, or
  - 4. Involvement in discussion question as determined by the instructor and indicated in the course syllabus.
- C. Calculations for weekly to percentage ratios
  - 1. Missing 1 of 15 weeks = 6.67%
  - 2. Missing 2 of 15 weeks = 13.33%
  - 3. Missing 3 of 15 weeks = 20%
  - 4. Missing 1 of 7.5 weeks = 13.33%
  - 5. Missing 1.5 of 7.5 weeks = 20%

## **Procedures:**

### Early Intervention:

- A. Any student who misses 10% of an individual course (or earlier at faculty discretion) during a regular fifteen-week semester, or the equivalent portion of time in a shorter session, will have their name submitted by that course instructor to the OSUIT Early Alert System for retention intervention.
- B. At the point the Early Alert is issued, the student *must* meet with their assigned faculty advisor or designated faculty/staff member within seven (7) academic calendar days for counseling on how to improve their attendance and academic success.

### Excessive Absences:

- A. The University reserves the right to administratively withdraw any student from an individual course who misses 20% of that course, whether excused or unexcused, and, in the opinion of the instructor, the student does not have a reasonable opportunity to be successful in the course.
- B. Students should be aware any of the following may impact their financial aid:
  - 1. being administratively withdrawn from a course
  - 2. dropping a course
  - 3. their last date of attendance in a course

Please see OSUIT Policy 2-021 for full details and procedures.

## TENTATIVE SCHEDULE AND ASSIGNMENTS

NOTE: All dates and assignments are tentative and subject to change at the discretion of the instructor.

| WEEK                       | DESCRIPTION   | Chapter Readings       | Week Ending   |
|----------------------------|---|------------------------|---------------|
| 1                          | <b>No Assignment Due</b>  | NA                     | 5-7-17        |
| 2                          | <b>Introduction to the World of Mobile Device Forensics</b><br>Current Event Article  | Chapter 1              | 5-14-17       |
| 3                          | <b>Mobile Devices vs Computer Devices in the World of Forensics</b><br>Current Event Article                                | Chapter 2              | 5-21-17       |
| 4                          | <b>Collecting Mobile Devices, USB Drives and Storage Media at the Scene</b><br>Current Event Article<br>LAB 1               | Chapter 3              | 5-28-17       |
| 5                          | <b>Preparing, Protecting and Seizing Digital Device Evidence</b><br>Current Event Article                                   | Chapter 4              | 6-4-17        |
| 6                          | <b>Toolbox Forensics: Multiple-Tool Approach</b><br><b>Mobile Forensics Tool Overview</b><br>Current Event Article<br>LAB 2 | Chapter 5<br>Chapter 6 | 6-11-17       |
| 7                          | <b>Preparing the Environment for Your First Collection</b><br>Current Event Article   | Chapter 7              | 6-18-17       |
| 8                          | <b>Conducting a Collection of a Mobile Device: Considerations and Actions</b><br>Midterm Exam<br>Current Event Article      | Chapter 8              | 6-25-17       |
| <b>SUMMER BREAK WEEK 1</b> |   |                        | <b>7-2-17</b> |
| <b>SUMMER BREAK WEEK 2</b> |   |                        | <b>7-9-17</b> |
| 9                          | <b>Analyzing SIM Cards</b><br>Current Event Article<br>LAB 3  | Chapter 9              | 7-16-17       |
| 10                         | <b>Analyzing Feature Phones, BlackBerry, and Windows Phone Data</b><br>Current Event Article<br>LAB 4                       | Chapter 10             | 7-23-17       |
| 11                         | <b>Advanced iOS Analysis</b><br>Current Event Article<br>LAB 5  | Chapter 11             | 7-30-17       |

|    |   |            |         |
|----|---|------------|---------|
| 12 | <b>Querying SQLite and Taming the Forensic Snake</b><br>Current Event Article             | Chapter 12 | 8-6-17  |
| 13 | <b>Advanced Android Analysis</b><br>Current Event Article<br>LAB 6                        | Chapter 13 | 8-13-17 |
| 14 | <b>Presenting the Data as a Mobile Forensics Expert</b><br>Current Event Article<br>LAB 7 | Chapter 14 | 8-20-17 |
| 15 | <b>FINAL EXAM</b>   |            | 8-25-17 |