TCOM/CFRS 664 Sec 001 – Incident Response and Corporate Forensics
Department of Electrical and Computer Engineering
George Mason University
Spring 2015

Syllabus
revised 2014-12-26

Administrative Information
Instructor: Dr. Aleksandar Lazarevich
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Phone: 703-393-2247
Office hours: By appointment
Teaching Assistant: Sarah Kabli (skabli@gmu.edu)
Classes: Mondays, Engineering 1505, 4:30 pm –7:10 pm

Course Description
TCOM 664 - Incident Response Forensics (3:3:0)
Prerequisites: TCOM 509 and TCOM 529. This course addresses incident detection, response, and those aspects of computer forensics pertinent to the investigation of trade secret theft, economic espionage, copyright infringement, piracy, and fraud. Procedures for gathering, preserving, and analyzing forensic evidence are discussed in detail and are applied to both computer and network incident response forensics.

Textbooks
Grading
Raw scores may be adjusted to calculate final grades.
Grades will be assessed on the following components:
- Homeworks (4@15% each) 60%
- Mid-term exam 20%
- Final exam 20%

These components are outlined in the following sections.

Homework
The use of an eBook may not give you access to the student resource site so verify with publisher. Purchasing a used book may require you to purchase access to the student resources separately. You may use either the software provided or go to the software manufacturer’s site and download the current trialware. You may use alternative software to do the homework if you wish.

- **Homework 1** - In a 3-4 page paper, describe an incident response plan. Explain what the plan should contain, who should participate in the writing and validating, how it will be kept current, etc. Ensure you include who will respond and escalation criteria and procedures.
- **Homework 2** – Using the Nelson Book, Prepare a 4-5 page response to Case Project 4-3 on page 147.
- **Homework 3** – Using the Nelson Book, Perform Hands-on project 6-2 on pages 255-257 and Write a 3-4 page paper describing your observations
- **Homework 4** – Using the Nelson Book, Perform Hands-on projects 9-2 and 9-3 on pages 377-378

Reports will due in Weeks 4, 6, 12, and 14. Late reports will be assessed a penalty of 25% of the assignment grade for each week or part there of it is late. Students will be allowed an extension of up to one week on one assignment only with no penalty. Homeworks will be graded by the TA so questions are to be addressed to the TA. The TA is available for assistance with the homework assignments. It is the student’s responsibility to check out their text’s DVD for completeness and data integrity. If the DVD has problems, contact the publisher.

Mid-term exam
The mid-term exam will be conducted during class time in Week 8 and will cover material discussed in Weeks 1-9. The mid-term exam will be “take home”. No collaboration is authorized.

Final exam
The final exam will be a practicum where you will be issued files and folders to evaluate. You will need your own computer (any windows computer/laptop will do) with which to perform the investigation or you may use the machines in the open lab ENGR 1506. You will not be able to use your work computer since most will not allow you to install software. The final exam will be “take home”. No collaboration is authorized.
## Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Reading Assignments</th>
<th>Projects Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>1/26/2015</td>
<td>Introduction Incident Response</td>
<td>SP800-61 Chapt 2-8,</td>
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<tr>
<td>Week 2</td>
<td>2/2/2015</td>
<td>Forensic Investigations</td>
<td>EC-Council Cybercrime Chapt 1 4-6</td>
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<tr>
<td>Week 3</td>
<td>2/9/2015</td>
<td>Evidence Collection</td>
<td>Nelson Chapt 1 – 3</td>
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<tr>
<td>Week 4</td>
<td>2/16/2015</td>
<td>Windows</td>
<td>Nelson Chapt 4 &amp; 5</td>
<td>Homework 1 due</td>
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<tr>
<td>Week 5</td>
<td>2/23/2015</td>
<td>Tools</td>
<td>Nelson Chapt 6,</td>
<td></td>
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<tr>
<td>Week 6</td>
<td>3/2/2015</td>
<td>Macintosh, Linux</td>
<td>Nelson Chapt 7-8</td>
<td>Homework 2 due</td>
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<tr>
<td>Week 7</td>
<td>3/9/2015</td>
<td>Spring Break – No Class</td>
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<tr>
<td>Week 8</td>
<td>3/16/2015</td>
<td>Forensic Analysis</td>
<td>Nelson Chapt 9</td>
<td>Mid-Term published/released</td>
</tr>
<tr>
<td>Week 9</td>
<td>3/23/2015</td>
<td>Mid-term (no-line) No lecture</td>
<td>Covers Weeks 1-9</td>
<td>Mid-term Due on-line</td>
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<tr>
<td>Week 10</td>
<td>3/30/2015</td>
<td>Graphics Files</td>
<td>Nelson Chapt 10</td>
<td></td>
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<tr>
<td>Week 11</td>
<td>4/6/2015</td>
<td>Live Acquisition</td>
<td>Nelson Chapt 11</td>
<td></td>
</tr>
<tr>
<td>Week 12</td>
<td>4/13/2015</td>
<td>Forensic Integration</td>
<td>SP 800-86 Chapt. 2-8</td>
<td>Homework 3 due</td>
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<tr>
<td>Week 13</td>
<td>4/20/2015</td>
<td>Email</td>
<td>Nelson Chapt 12 &amp; EC-Council Cybercrime Chapt 7</td>
<td></td>
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<tr>
<td>Week 14</td>
<td>4/27/2015</td>
<td>Investigation,</td>
<td>EC-Council Cybercrime Chapt 8-11</td>
<td>Homework 4 due</td>
</tr>
<tr>
<td>Week 15</td>
<td>5/4/2015</td>
<td>Law, ethics and testimony</td>
<td>Nelson Chapt 14-16</td>
<td>Release final exam</td>
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<tr>
<td>Week 16</td>
<td>5/11/2015</td>
<td>Final exam</td>
<td>Covers weeks 10-15</td>
<td>Final exam</td>
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</tbody>
</table>

*This schedule is subject to revision before and throughout the course.*

Call 703–993–1000 for recorded information on campus closings (e.g. due to weather).

### Important Dates

- Last day to add classes or drop with no tuition liability: Tue. Jan 27
- Last day to drop (33% penalty): Tue. Feb 10
- Last day to drop (67% penalty): Fri. Feb 20


See that Web page for more information.


### Attendance Policy

Students are expected to attend each class, to complete any required preparatory work (including assigned reading) and to participate actively in lectures, discussions and exercises. As members of the academic community, all students are expected to contribute regardless of their proficiency with the subject matter.

Students are expected to make prior arrangements with Instructor if they know in advance that they will miss any class and to consult with the Instructor if they miss any class without prior notice.
Departmental policy requires students to take exams at the scheduled time and place, unless there are truly compelling circumstances supported by appropriate documentation. Except in such circumstances, failure to attend a scheduled exam may result in a grade of zero (0) for that exam.

**Communications**

Communication on issues relating to the individual student should be conducted using email or telephone. Email is the preferred method – for urgent messages, you should also attempt to contact the Instructor via telephone. Email messages from the Instructor to all class members will be sent to students' GMU email addresses – if you use another email account as your primary address, you should forward your GMU email to that account.

Lecture slides are complements to the lecture process, not substitutes for it - access to lecture slides will be provided as a courtesy to students provided acceptable attendance is maintained.

**Honor Code**

Students are required to be familiar and comply with the requirements of the [GMU Honor Code](http://catalog.gmu.edu/content.php?catoid=5&navoid=410#Honor). The Honor Code will be strictly enforced in this course.

All assessable work is to be completed by the individual student.

Students must **NOT** collaborate on the exams.

In order to be able to fully exchange information and insure complete candor in discussions, the policy of non-attribution will be STRICTLY enforced.

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