Instructor:
Dr. Charles Pak
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Office hours: Fridays 5-7PM, EST.

General Course Information
Due to the dynamic nature of information technology, the need arises continually to redefine audit, control and security requirements and processes. Topics include the IS audit process, IT infrastructure and operations, information protection, disaster recovery and business continuity, IT service delivery and support, business application systems, and project management. Students gain practical experience with each by working through a series of sample Certified Information Systems Audit (CISA) exam questions.

Course Description
This course presents a systematic process of objectively obtaining and evaluating evidence regarding Information System’s security incidents caused by an adversary externally or internally. Security incidents will be objectively evaluated to analyze each case and create an audit report with findings.

Course Objectives
Upon completion of this course, the student will be able to:

1. Describe the systematic process of information security audit.
2. Demonstrate an independent professional audit activity to support the incident investigation.
3. Analyze the security incident with a proven audit procedure.
4. Generate an audit reporting with findings.
5. Present the security audit case to legal proceedings or management.

Reading Materials:
Required Text Book:

Method of Instruction
The method of instruction will combine the following elements:
- Online Class Discussion, Collaboration, Audit Analysis and Report
- Information Security Audit Forensic Research Presentation, Project Paper Deliverable

Policy on Paper Submission
Papers are due on the date they are due. Up until midnight of that night, no penalty will accrue. Please note that life emergencies happen. Do NOT wait until the last moment to start on your paper. If you do that and something comes
up to impede your progress, it will hamper your ability to turn in your paper on time. Papers MUST be submitted electronically via Blackboard.

All papers must include the following statement:
“This paper or presentation is my own work. Any assistance I received in its preparation is acknowledged within the paper or presentation, in accordance with academic practice. If I used data, ideas, words, diagrams, pictures, or other information from any source, I have cited the sources fully and completely in footnotes and bibliography entries. This includes sources that I have quoted or paraphrased. Furthermore, I certify that this paper or presentation was prepared by me specifically for this class and has not been submitted, in whole or in part, to any other class in this University or elsewhere, or used for any purpose other than satisfying the requirements of this class, except that I am allowed to submit the paper or presentation to a professional publication, peer reviewed journal, or professional conference. In adding my name following the word ‘Signature’, I intend that this certification will have the same authority and authenticity as a document executed with my hand-written signature.

Signature _____________________________ ”

**Reading Assignments:**
The scope of this course is very broad, and a large amount of reading is required. However, the relative importance of materials, as specified in the course outline, varies. Specifically assigned materials must be read in detail. Materials to which students are directed or for which copies are provided but which are not specifically assigned are recommended for added understanding of required material, but are optional in the sense that students will not be held explicitly responsible for anything that appears only in these materials. They are appropriate either for students who have difficulty with the subject matter based on the required readings or for those who want a deeper understanding of the material. Recommended background reading is valuable for overall understanding, may provide a technical depth beyond the requirements of the class, may provide valuable material for student research topics, and may be useful in responding to comprehensive essay questions.

Since much of what is happening in information security is happening now, current events will play a role in class discussions. As professionals, it is crucial for you to keep up with events as they unfold. There is no substitute for regular reading of business and technology news in a major newspaper, for following current journal articles, visiting key web sites, and for noting the direction of industry organizations such as the IEEE, IETF, and the ACM. You should constantly consider how what you read in such sources fits into the subject you are studying. Current articles, including Web articles, may be assigned as supplementary reading as the course progresses. **Students are encouraged to use as many and varied sources as possible in exploring the questions presented during the course, and to share those sources with their classmates. References to sources should be explicit in exchanges among the students and instructor, and will be considered in determining the extent to which each student participated for purposes of awarding grades.**

**Grading Policy:**
The overall course grade will be established as follows:

<table>
<thead>
<tr>
<th>Grading Criteria</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>IS Auditing Case Study Report</td>
<td>30</td>
</tr>
<tr>
<td>IS Auditing Case Study Presentation</td>
<td>10</td>
</tr>
<tr>
<td>Discussion Participation</td>
<td>30</td>
</tr>
<tr>
<td>Final exam</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
</tr>
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</table>

**Other Items of Importance**
Don’t ask for an incomplete for convenience. The University has very specific policy on when a grade of incomplete may be awarded. See the Bulletin for more information on grading policies.

**Writing and Speaking Standards:**
Written communication is an important element of the total communication process. This is a graduate program.
Students are assumed to have learned how to prepare academic papers in their earlier studies, including how to reference works used in preparation of their papers and presentations. The University recognizes and expects exemplary writing to be the norm for course work. To this end, all papers, individual and group, must demonstrate graduate level writing and comply with and conform to standard academic format as specified in A Manual For Writers of Term Papers, Theses, and Dissertations by Kate L. Turabian, Seventh Edition. Points will be subtracted for format errors. Points will also be subtracted for spelling and grammatical errors. Use of Standard English ensures that your points will be both understood and correctly interpreted by all readers, a skill that will be vital to your success after graduation.

Effective managers, leaders, and teachers are also effective communicators. It is no understatement to say that effective speaking and writing skills are as important to career success as technical mastery of a subject. Speaking and writing effectively are a critical part of this course. Correct and graduate level Standard English must be used.

**Academic integrity:**

Academic integrity is central to the learning and teaching process. Students are expected to conduct themselves in a manner that will contribute to the maintenance of academic integrity by making all reasonable efforts to prevent the occurrence of academic dishonesty. Academic dishonesty includes, but is not limited to, obtaining or giving aid on an examination, having unauthorized prior knowledge of an examination, doing work for another student, and plagiarism of all types.

Plagiarism is the intentional or unintentional presentation of another person’s idea or product as one’s own. Plagiarism includes, but is not limited to, the following: copying verbatim all or part of another’s written work; using phrases, charts, figures, illustrations, or mathematical or scientific solutions without citing the source; paraphrasing ideas, conclusions, or research without citing the source; and using all or part of a literary plot, poem, film, musical score, or other artistic product without attributing the work to its creator. Students can avoid unintentional plagiarism by following carefully accepted scholarly practices. Notes taken for papers and research projects should accurately record sources of material to be cited, quoted, paraphrased, or summarized, and papers should acknowledge these sources.

**There is no such thing as “boilerplate” in academia.**

If you don’t understand what plagiarism is and how to avoid it, consult the University’s academic integrity policy. See also [http://www.prism-magazine.org/december/html/student_plagiarism_in_an_onlin.htm](http://www.prism-magazine.org/december/html/student_plagiarism_in_an_onlin.htm)

This is a graduate program. Students are assumed to have learned how to prepare academic papers in their earlier studies, including how to reference works used in preparation of their papers and presentations.

The penalties for plagiarism include a zero or a grade of “F” on the work in question, a grade of “F” in the course, suspension with a file letter, suspension with a transcript notation, or expulsion. Students are not permitted to submit an assignment or paper that already has been submitted for another course at any institution, even if it is entirely their own work. This includes cutting and pasting portions of previous papers or other written assignments. The penalties will be the same as those listed above for plagiarism. Please check your work carefully. Turabian contains complete guidance on how to correctly reference all forms of material.

**There is no such thing as “boilerplate” or “standard language” in academia.** Students are expected to write their reports themselves. If it is necessary to use material from other sources, it is expected (and mandatory) that the standards of academic style and integrity will be followed. Every student is encouraged to visit these websites for interesting information regarding this issue:

- A true story about plagiarism gone awry
- Goucher College’s “Plagiarism-by-Paraphrase Risk Quiz”
  [http://faculty.goucher.edu/writingprogram/sgarrett/Default.html](http://faculty.goucher.edu/writingprogram/sgarrett/Default.html)
- Copyright law, frequently asked questions, and other good stuff
- The Islam Online.net Fatwa on Plagiarism
http://www.islamonline.net/servlet/Satellite?pagename=IslamOnline-English-Ask_Scholar/FatwaE/FatwaE&cid=1119503549102

http://www.ipl.org—home page of the Internet Public Library. Users may search the databases for topics of various interests. The site provides links for viewing and downloading numerous academic articles on the development of technology, the history of computers and the Internet, and the evolution of digital communication.

http://www.isoc.org—The Internet Society (ISOC) is a professional membership society with more than 100 organization and over 20,000 individual members in over 180 countries. It provides leadership in addressing issues that confront the future of the Internet, and is the organization home for the groups responsible for Internet infrastructure standards, including the Internet Engineering Task Force (IETF) and the Internet Architecture Board (IAB).

http://www.fcc.gov—The Federal Communications Commission (FCC) is an independent U.S. government agency, directly responsible to Congress. The FCC was established by the Communications Act of 1934 and is charged with regulating interstate and international communications by radio, television, wire, satellite and cable. The FCC's jurisdiction covers the 50 states, the District of Columbia, and U.S. possessions.

http://www.netlingo.com—This site contains thousands of definitions about computers, the Internet, and the online world of business, technology, and communication.

Disabled Students: Any student who has a disability and is in need of special consideration must inform the instructor of this need within the first week of class (or immediately if the disability appears after the first week of class) so that appropriate arrangements can be made. This includes students with reading or learning disabilities who may require extra time on tests. In all cases, the student must communicate with the Disability Services Center and have registered the disability with the University.

Forensic Case Study Research Project

The student will conduct a Forensic Case Study Research and produce a forensic report paper for submission in a length of 10-15 pages, double-spaced. The paper must conform to APA; see http://www.apastyle.org/ for a proper APA style. The paper should include a comprehensive evaluation of a Forensic case of a real or potential fictitious case. The paper will be assessed on a case build-up, analysis, arguments, and recommendations on the case. Please do not include any organizational sensitive or confidential data on the paper. The paper should be properly formatted with a cover page, table of contents, content sections, conclusions, and a list of references.

Conference Post

The following table depicts a conference rubric that guides students how to prepare each conference post and how each conference post will be graded by the instructor. Each conference discussion will be graded with its own criteria, and the following rubric depicts the first week discussion forum. Conference rubric for weekly discussion forum, thread, and post participation will be available online.

Course Schedule

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<tr>
<th>Week</th>
<th>Date</th>
<th>Discussion Topic</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>1</td>
<td>1/19</td>
<td>Chapter 1: Auditing, Assurance, and Internal Control</td>
<td>Read Chapter 1 Discussion Post</td>
</tr>
<tr>
<td>2</td>
<td>1/26</td>
<td>Chapter 2: Computer Operations</td>
<td>Read Chapter 2 Discussion Post</td>
</tr>
<tr>
<td>3</td>
<td>2/2</td>
<td>Chapter 3:</td>
<td>Read Chapter 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Data Management Systems</td>
<td>Discussion Post</td>
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<tr>
<td>4</td>
<td>2/9</td>
<td>Chapter 4: Systems Development &amp; Maintenance Activities</td>
<td>Read Chapter 4 Discussion Post</td>
</tr>
<tr>
<td>5</td>
<td>2/16</td>
<td>Chapter 5: Networks, Internet &amp; Ecommerce</td>
<td>Read Chapter 5 Discussion Post</td>
</tr>
<tr>
<td>6</td>
<td>2/23</td>
<td>Chapter 6: Enterprise Resource Planning Systems</td>
<td>Read Chapter 6 Discussion Post</td>
</tr>
<tr>
<td>7</td>
<td>3/1</td>
<td>Chapter 7: Computer-Assisted Audit Techniques [CAATs]</td>
<td>Read Chapter 7 Discussion Post</td>
</tr>
<tr>
<td>8</td>
<td>3/8</td>
<td>Chapter 8: CAATTs for Data Extraction and Analysis</td>
<td>Read Chapter 8 Discussion Post</td>
</tr>
<tr>
<td>9</td>
<td>3/15</td>
<td>Chapter 9: Auditing the Revenue Cycle</td>
<td>Read Chapter 9 Discussion Post</td>
</tr>
<tr>
<td>10</td>
<td>3/22</td>
<td>Chapter 10: Auditing the Expenditure Cycle</td>
<td>Read Chapter 10 Discussion Post</td>
</tr>
<tr>
<td>11</td>
<td>3/29</td>
<td>Chapter 11: Introduction to Business Ethics and Fraud</td>
<td>Read Chapter 11 Discussion Post</td>
</tr>
<tr>
<td>12</td>
<td>4/5</td>
<td>Chapter 12: Fraud Schemes &amp; Fraud Detection</td>
<td>Read Chapter 12 Discussion Post</td>
</tr>
<tr>
<td>13</td>
<td>4/12</td>
<td>Final Exam Review</td>
<td>Forensic Findings Presentation Slide Deck Due</td>
</tr>
<tr>
<td>14</td>
<td>4/19</td>
<td>Final Exam Review</td>
<td>Forensic Case Study Research Project Due</td>
</tr>
<tr>
<td>15</td>
<td>4/26</td>
<td>Final Exam</td>
<td>Final end on 5/3</td>
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