

CENTER FOR TELECOMMUNICATIONS AND NETWORK SECURITY OKLAHOMA STATE UNIVERSITY

Although grading and guidelines will remain constant once the semester begins, the class schedule and assignments will change throughout the term, so look here often for changes as the semester progresses. You are responsible for all information posted here. Also, here are lots of important and useful university info for [Stillwater](#) and Tulsa.

TCOM 5243 / MSIS 4243- Spring 2008
IT Forensics
4:30 - 7:10 Wednesday, and much time on your own

Instructors:

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GOALS:

Procedures for identification, preservation, and extraction of electronic evidence. Auditing and investigation of network and host system intrusions, analysis and documentation of information gathered, and preparation of expert testimonial evidence. Forensic tools and resources for system administrators and information system security officers. Ethics, law, policy, and standards concerning digital evidence.

SENSITIVE CONTENT AND ETHICS:

During this course you will be introduced to tools and methods for revealing information that is not available to a casual user of the same equipment. We expect you to apply this knowledge and the tools only for legal and ethical purposes. Because some "uncontrolled" source media may be used in the class, you may reveal material that many would deem inappropriate, offensive, and possibly illegal. You MAY NOT share,

copy, or otherwise distribute the content with anyone other than the course instructors. They will provide you with proper procedures to follow. You will be asked to sign an agreement of this section during the first two weeks of class and before accessing the lab facility.

REQUIRED TEXTBOOKS:

Computer Forensics: Principles and Practice , by Linda Volonino, Reynaldo Anzaldua, and Jana Godwin. Pearson/Prentice Hall, ISBN 0-13-154727-5
You can get it from the bookstore, but can probably save a few bucks by getting it online.

CLASS PREPARATION:

In addition to completing homework exercises, you should always read materials noted

Reading / Preparation of the class schedule. There may also be other materials posted in the same area that should be printed, reviewed prior to the class, and brought with you. Not all sessions will have additional materials. When available, these will most often be a subset of the PowerPoint slides that I will use in the classroom and will be very helpful in class.

GRADING:

Grades for those enrolled in the graduate section will be assigned based on two exams, several short assignments, and a project or paper that will be assigned around the midterm exam. Grades for those enrolled in the undergraduate section will be assigned based on two exams, and several short assignments.

Assigned weights are as follows:

Assignment	TCOM 5243	MSIS 4243
Midterm Exam	25	33 1/3
Final Exam	25	33 1/3
Homeworks / mini-projects	25	33 1/3
Final Analysis or project	25	

Based on the weighted percentage, a final semester grade will be assigned on the following basis, using the percentage, percentile within your course (TCOM 5243 or TCOM 5123), or and overall percentile ranking among all students in either course. The one that results in the highest letter grade will be used for each individual.:

<u>Grade</u>	<u>Percentage (Weighted as</u>	<u>TCOM 5243 Percentile</u>	<u>MSIS 4243 Percentile</u>	<u>All Students Percentile</u>
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	<u>above)</u>			
A	90	65	75	75
B	80	25	40	40
C	70	10	20	20
D	60	5	10	10
F	<60	<5	<10	<10

Your percentile score simply represents the percent of other students who have achieved a lower percentage score than you. All students who complete the midterm, and are enrolled at that time, will be included in the percentile computations, even if they fail to complete the course. Whichever of the three relevant scales results in the highest grade will be applied for each student. Your percentile rankings will be sent to your okstate.edu email address after the first exam and shortly before the final exam.

HOMEWORK ASSIGNMENTS:

We will assign 7-12 assignments to complete outside of class during the term. Each assignment will be weighted equally toward the final point, despite widely varying in necessary time and effort. Some assignments will be designated as "double assignments", in which case they will count as two assignment grades (each being weighted as a full grade). Because we have not decided how many assignments there will be, I cannot determine the exact value in final semester points for each assignment. Assignments are due when indicated at the top of the assignment and/or on this syllabus in the manner indicated (online dropbox, media, physical submission). If homework is turned in on the Stillwater campus other than in class, please only put it in the hands of the Dr. Weiser or one of the assistants in the Dean's office in 201 Business during office hours (generally open 8:00 - 5:00 Monday through Friday). Comparable submission methods for Tulsa and distance learning students will be provided. Assignments slid under the door, if you're lucky enough that they are found at all and properly directed, will be considered to have been delivered the following time the office is open, NOT at the time they were submitted. If your assignment includes more than one sheet of paper, all sheets must be securely stapled together prior to submission, or one or more points may be deducted from the assignment.

LABORATORY ACCESS:

In order to complete required assignments, it may be necessary to have access to lab facilities with specialized equipment. There are labs in Stillwater and Tulsa that will each be configured with appropriate software and hardware during the time it is required. Access to these facilities are normally limited to the times that the buildings in which they are housed are open. Access to the facility may be by code and/or a key may be provided. Those enrolled in distance learning sections will be provided remote desktop access to a limited number of computers that are equipped with appropriate hardware and software. You may be required to install VPN software to access this equipment. Additionally, time may be scheduled to avoid conflicts. Each student will be asked to sign an agreement for use of the facility that includes consent to monitoring while using the facility. If you are not comfortable signing this agreement, do not take this class.

EXAMS:

Exam dates and times are shown in the evolving schedule. All students are expected to take the exam on this date. If you have a direct (same time) conflict with another exam, please let Dr. Weiser know by January 11, otherwise I will expect you to take the exams at the prescribed times. Stillwater and Tulsa students will be expected to take the exam at that time, in the presence of a proctor that will be provided. Distance learning students will be expected to follow regular procedures to establish a valid proctor with the Center for Executive and Professional Development, in time to have that person receive your exam to take at the closest possible time on the same day as other students in your class. If you are a distance learning student and cannot take the exam in the afternoon of the day the on-campus students take the test, due to a work constraint, please let Dr. Weiser know at least two weeks ahead of time, so that we can create an alternate test for you.

Every student is responsible for all material covered and announcements made during presentations, sent by e-mail, or posted on the website, regardless of whether they have attended or viewed the lectures in a timely manner.

STUDENTS WITH DISABILITIES:

If any member of the class believes that s/he has a physical, emotional, or psychological disability and needs accommodations of any nature, the instructor will work with you and the university Office of Student Disability Services (SU 315, 744-7116 v/t) to provide reasonable accommodations to ensure that you have a fair opportunity to perform in this class. Please advise the instructor of such disability and the accommodations as soon as possible, but not later than the beginning of the second day the class meets. You will need to also contact the Student Disability Services office in order to receive accommodations. No accommodations will be made without prior notification.

ACADEMIC INTEGRITY:

Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration on homework or assignments, plagiarism, multiple submissions of the same assignment, cheating on examinations, fabricating information, helping another person cheat, having unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627. In short, the best policy with regard to any form of academic dishonesty is "**DON'T DO IT!!**" For more details about the full OSU policy, [click here](#).

Evolving Class Schedule:

Class:	Subjects / Assignments	Reading / Preparation
9 Jan	Forensic Evidence and Crime Investigation	
16 Jan	Computer Forensics and Digital Detective Work	
23 Jan	Tools, Environments, Equipment, and Certifications	
30 Jan	Policies and Procedures	
6 Feb	Data, PDA, and Cell Phone Forensics	
13 Feb	Operating Systems and Data Transmission	
20 Feb	Investigating Windows, Linux, and Graphics Files	
27 Feb	E-Mail and Webmail Forensics	
5 Mar	Midterm Exam 4:35 5 March.	
12 Mar	Internet and Network Forensics and Intrusion Detection	
19 Mar	NO CLASS – SPRING BREAK	
6 Nov	Tracking Down Those Who Intend to Do Harm on a Large Scale	
13 Nov	Fraud and Forensic Accounting Investigation	
20 Nov	Federal Rules and Criminal Codes	
27 Nov	Ethical and Professional Responsibility in Testimony	
4 Dec	TBD	
11 Dec	Final Exam: 6:00, 12 December	