CSC 580 (Selected Topics): Intrusion and Anomaly Detection

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Course web site: <u>http://faculty.kutztown.edu/frye/secure/CSC580IAD</u> D2L: <u>https://kud2l.kutztown.edu/</u>



Office Hours

M 1:30 – 3:30pm H 9:30 – 11:00am

http://faculty.kutztown.edu/frye

T 9:30 – 11:00am Other times by appointment

COURSE INFORMATION

Meetings	M 6:00-8:50pm. OM158.		
Dates	Midterm: 3/6. Last day 'W': 4/3. Final: 5/4		
Course Description	This course covers important issues in the detection of intrusions and anomalies. Topics covered include intrusion detection systems, intrusion prevention systems and anomaly and misuse detection on hosts and networks. A variety of tools, techniques, and methodologies for monitoring computer systems and networks will be discussed. Students will learn how to identify and respond to computer system and network intrusions. 3 sh. Prerequisites: none.		
Course Objectives	A. Describe Intrusion Detection Systems (IDSs) and Intrusion Prevention Systems (IPSs).B. Identify anomalies in computer systems and network traffic.		
	C. Explain the implementation details of intrusion detection systems and methodologies.D. Analyze intrusion detection approaches and systems.		
	E. Develop techniques and tools to create intrusions.		
	F. Implement intrusion detection practices and systems.		
Text	None required. Text determined by the project.		

COURSE GRADE		
Grading Policy	Exam	25%
	Project	65%
	Class Participation, includes homework	10%
	•	ning letter grades. Plus/minus grading will be the course, you must have a passing test average.
Exams	alternative time <u>PRIOR</u> to the scheduled tim basis and will require written documentation	occur the last week of classes for the semester.

Readings	It is expected that you will complete all readings and prepared to discuss them in class.	
Assignments	Assignments will be posted on the course web site. Late <u>projects</u> will be accepted but will be penalized 10% for each <u>calendar</u> day it is late.	
	All assignments must be typed and turned in via D2L. Assignments may be photo-copied and retained for program accreditation. Include the following information at the top of ALL assignments: your name, date, the course (CSC411), Dr. Frye and assignment number.	
POLICIES Email	The best way to contact me is by e-mail (<u>frye@kutztown.edu</u>). When sending me e-mail, please indicate the course number in the subject line by putting it in brackets before your subject. For example, if you are in 580, the following may be the subject: [CSC580] Help with lab #2	
Documentation	The computer science documentation standard must be followed for software assignments. <u>http://cs.kutztown.edu/pdfs/Documentation_Standard.pdf</u>	
Attendance	Regular class attendance and participation are expected and highly encouraged. Students are responsible for all material covered in class.	
Class Participation	This course is intended to involve a lot of class discussion. Every student is expected to participate in the class discussions. Attendance, completed homework and doing the readings do not constitute class participation. Students must participate in the discussions, voluntarily.	
Academic Dishonesty	All students should familiarize themselves with the <u>Computer Science Department Academic</u> <u>Integrity Policy</u> . Any student copying work or giving work to another student will receive a zero for that assignment and will be referred to the department chairperson.	
Classroom Etiquette	Respect for your classmates, instructor, and the class is expected. Please come to class <u>on time</u> <u>and prepared to learn</u> . Coming and going during class should only occur in unavoidable situations. Electronic devices should be neither seen nor heard (unless used for class instructions, notes, etc.).	
Students with Disabilities	Students with diagnosed disabilities or special needs that require accommodations for this course must first contact the Disability Services Office, located in the Office of Human Diversity at 215 Stratton Administration Building. Do this as soon as possible so that we may have a dialogue as to your needs and the recommended accommodations.	

Note: This syllabus is subject to change at the discretion of the instructor.