

CS530L – lab component of Security Systems course

August 28, 2009

Correlation

lab component << >> main course

- loosely coupled
- contributes to course grade
 - directly: via grading of individual labs
 - indirectly: subject matter may appear in exams
- cumulative lab results are reported to Professor Neuman who considers them in determining course grade

Lab sessions per week

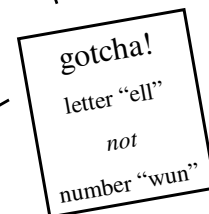
- a 50-minute lab lecture
 - Friday 4:30 pm, in OHE122
 - addresses the theory that the exercise demonstrates
 - explains the exercise procedurally
- A 80-minute lab exercise
 - at a time the following week
 - performed hands-on
 - per specific instructions
 - assisted by grader - Rajas Mohile or Gauravkumar Shah

Lab website

<http://www-scf.usc.edu/~csci530/>

or equivalently

<http://ccss.usc.edu/530/>



11 candidate timeslots for scheduling

Monday	Tuesday	Wednesday	Thursday
9:00a-10:20a		9:00a-10:20a	9:00a-10:20a
10:30a-11:50a		10:30a-11:50a	10:30a-11:50a
		12:00 – 1:20p	
1:00p - 2:20p	1:00p - 2:20p		1:00p - 2:20p
2:30p - 3:50p			

Location: OHE406 - fourth floor Olin Hall

Lab mechanics

- sign up for a lab session
- by filling out a form

Edit record	
Mon0900:	<input type="text"/>
Mon1030:	<input type="text"/>
Mon1300:	<input type="text"/>
Mon1430:	<input type="text"/>
Tue1300:	<input type="text"/>
Wed0900:	<input type="text"/>
Wed1030:	<input type="text"/>
Wed1200:	<input type="text"/>
Thu0900:	<input type="text"/>
Thu1030:	<input type="text"/>
Thu1300:	<input type="text"/>
ID:	morgan
	<input type="button" value="[save]"/> <input type="button" value="[cancel]"/>

Lab mechanics

- form is at <http://dmorgan.us/cgi-bin/csvupdate.pl>
- express a preference 1-4, 5, or 0, for each of the 11 timeslots
(non-correct, non-complete forms will be discarded and receive later lower priority scheduling; 1=most preferred, 5=least preferred, 0=conflict)
- give a single 1, 2, 3, and 4 to your top 4 timeslots
- give 5's to all non-conflicting but unpreferred timeslots
- give 0's to all conflicting timeslots
- I will seek to follow preferences
- response deadline – end of Tuesday 9/2/2009
(subject to my first enabling form with username preload ASAP)

An acceptably filled form

Timeslot	Preference
Mon0900:	0
Mon1030:	0
Mon1300:	3
Mon1430:	5
Tue1300:	5
Wed0900:	4
Wed1030:	5
Wed1200:	5
Thu0900:	1
Thu1030:	2
Thu1300:	0

ID:

[save] [cancel]

- a single "1"
- a single "2"
- a single "3"
- a single "4"
- seven "5 or 0"s
- no blanks/omissions

Lab exercise mechanics

- before: preview website's posted instructions
- attend your chosen/assigned lab session
- lab will be attended by assisting lab grader
- recover and install your removable hard drive
- perform the week's prescribed lab
- after: turn in requested result electronically
 - email it to csci5301@usc.edu
 - use prescribed email title for each lab
 - deadline: by start of following week's lab

Lab mechanics

- there are 10 lab exercises
- each is followed by a few questions
- every question must be answered
- each lab graded fail/lo-pass/pass/hi-pass
0 1 2 3
- 9 highest grades averaged (i.e., lowest discarded)
- average will influence course grade
 - average > 2 raises/enhances
 - average < 2 lowers/damages
 - average = 2 no effect

Lab workstation installations

- operating platform is Windows XP
- hosting virtual (vmware) operating systems
 - Centos (linux)
 - Fedora 7 (linux)
 - Fedora 8 (linux)
 - Knoppix (linux)
 - Windows 2000
 - Windows XP

Policies

- no late submissions
- submissions not accepted without attendance
- follow course online homes
 - lab website at
<http://www-scf.usc.edu/~csci530/>
(different from professor's main site for the course)
 - lab lectures on DEN

Representative lab topics

- Public key infrastructure
- Packet sniffing
- Authentication
- Authorization
- Firewalls
- Intrusion detection
- Software security
- Vulnerability assessment
- Secure tunnels
- Additional topic(s)

subject to adjustment – some adjustments and changes will be made

Calendar schedule

<u>Fri lecture</u>	<u>Topic</u>	<u>Mon lab (e.g.)</u>
9/4	Public key infrastructure	9/7
9/11	Packet sniffing	9/14
...	...	
...	...	
...	...	

- Possibility of week(s) off in the middle
- Prof Neuman's lectures vs our labs – note 15 weeks vs only 10
 - we conclude by around mid-November

DEN students

- please contact me by email
 - davidmor@usc.edu
- identify yourself as a DEN student
 - I don't have class roster, don't know who you are
 - intend to mail you a DEN-resource DVD

Today's take-away for your to-do list

- Non-DEN students
 - please make your timeslot choices per earlier instructions
- DEN students
 - please send self-introductory email indicating you are DEN

Email contacts

- csci530l@usc.edu
lab graders, me, course TA, prof collectively
- davidmor@usc.edu
me individually

Thank you

- for sharing an interest in the subject matter
- for your kind attention today