ECE4112 Internetwork Security  
Final Survey Spring 2006

(Please also do the official: http://www.coursese surve y.gatech.edu) Please help to improve future offerings of this class.

We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

web security should be modif ied

What was your favorite lab assignment and why?

the last lab where we got to see how everything tied together

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

buffer overflows were a bit complicated for one lab

What could have been done to make your education experience in ECE4112 better?

maybe a 30 min each lecture lecturing on background of our upcoming lab

Do you have any additional comments or suggestions? (Use the back if you need it.....)

This has been one of my favorite classes at Tech so far
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

I felt that all the labs were necessary. You could try combining labs, if possible. For instance, the last few labs didn’t take very long, maybe you could combine them or add new material to it.

Also, the VDSL lab was good to put a perspective on the topic, but the 1 hour install time didn’t feel worth the 30 minute lab part. Consider removing.

What was your favorite lab assignment and why?

The very last lab, Tiger Team.

I enjoyed how it was so open ended it left it to use and our knowledge we obtained over the semester to try to attack an actual network. Aside from the limited attacks that worked, it was very fun.

Keep it!

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

I felt like we spent a lot of time on rootkits and viruses that after a while they felt exactly the same. (There is a difference if they are good to know, it just felt like we spent a lot of time on it.)

The only thing that was missing was more labs topics on Web Security.

(IIS, SSL, etc.)

What could have been done to make your education experience in ECE4112 better?

Stop the "Day After Lab Review" presentation. It was nice to have an overview of it, but since we had already done it, nothing seemed new or exciting.

(Especially with the lab add-on's in the beginning of class)

(Lab add-on's were more useful)

Do you have any additional comments or suggestions? (Use the back if you need it.....)

Great class!

Never stop teaching it.
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

I thought all the labs seemed of appropriate length & I learned important content.

What was your favorite lab assignment and why?

The web security - breaking the key.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

Buffer overflows should have been discussed about in class, was hard to pick up that concept from reading the lab.

What could have been done to make your education experience in ECE4112 better?

The class was fun. Overall a good experience.

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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The last lab should cut out of that material which a real project.

What was your favorite lab assignment and why?

The b2k lab with the back door trojan

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

What could have been done to make your education experience in ECE4112 better?

May be a more defined lecture after the labs.

Do you have any additional comments or suggestions? (Use the back if you need it.....)  

No
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The last lab need better structuring. It was too open ended. At least give some guidance.

What was your favorite lab assignment and why?

Botnets, because you actually did something and saw it work.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

What could have been done to make your education experience in ECE4112 better?

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

Would be better if more materials were covered in Windows. Since that’s the operating system that’s commonly used. So more of Linux attacks could be reduced down to introduce Windows attacks.

What was your favorite lab assignment and why?

Password Cracking & Web Security

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

What could have been done to make your education experience in ECE4112 better?

Do you have any additional comments or suggestions? (Use the back if you need it….)

Great class. Tech should have more of these practical classes.
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

Repetitions of diff kinds of tools which serve pretty much the same purpose.

What was your favorite lab assignment and why?

Rootkits & Trojans

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

What could have been done to make your education experience in ECE4112 better?

A little shorter labs.

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We need to cut some material to make room for some new labs. Specifically what material do you
recommend cutting from the lab. Which lab, or parts of labs should we remove?

What was your favorite lab assignment and why?

Are there any topics in the course that you think should either not be covered or that we covered too much
or too little? Please be specific. What do you think is missing from this course?

What could have been done to make your education experience in ECE4112 better?

I really liked the Time Team lab. I wish we had more time to
work on it. And I wish it was a little more involved.

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

Some sections of labs were repetitive. They could be cut out, a couple of labs could be merged!

What was your favorite lab assignment and why?

[wireless labs ... because it didn't work and drove me crazy] (kidding)

[fire lab was lab 3 - DoS attacks. Also the lab involving password cracking, rootkits and trojans]

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

A bird's eye view. Something like an outline of what each lab covers. This can put labs into perspective with other labs. A little more inter-lab linking would be good.

What could have been done to make your education experience in ECE4112 better?

I'm not sure about the lab presentations (summaries of each lab) because almost all groups ended up just repeating what everyone had already finished in lab. The presentations would make more sense if it was purely theoretical - that would help the situation where I know how what I did.

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

Botnet lab. Too little information (which could easily be covered elsewhere).

What was your favorite lab assignment and why?

Man in the middle, etc.
Allowed us to "play" with stuff we normally couldn't.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

Too little: Botnets (see above)

What could have been done to make your education experience in ECE4112 better?

Speakers/presentations

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

Any material that teaches people Linux and tools should be removed. Students coming in this class should already know these things or show up fast. Perhaps condensing all this preliminary knowledge in a prelab would free up all the others.

What was your favorite lab assignment and why?

My favorite assignment was lab 11 Tiger Team Evaluation. I feel that this lab taught me something I can use after graduation by not telling me what to do.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

We worked too much (exclusively) with deprecated versions. I think in the second part of the semester we should use a more current Unix OS. Perhaps a Solaris system would be nice. I would like to see even more on Web security and DB security.

What could have been done to make your education experience in ECE4112 better?

Flawless lab setups, less dumfified instructions, and TAs that admit to their mistakes.

Do you have any additional comments or suggestions? (Use the back if you need it....)

If the labs get harder the students taking this class without real interest in security would reconsider. Those that do take it will have more knowledge and will take more away from the class.
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

A lot of the labs had some degree of redundancy. A noteworthy lab that I recall was the lab in which we ran Nessus and the windows version of something similar. Basically retelling the same information twice.

What was your favorite lab assignment and why?

My favorite part was always the additions to control. They often took as much time as the lab itself.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

Seems like most topics dealt with interest were covered. This wasn't really apparent until no struggled to find a new topic.

What could have been done to make your education experience in ECE4112 better?

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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IRC Botnets, IRC

What was your favorite lab assignment and why?

Buffer overflow, didn't feel like a script-kiddie... got to really understand how most exploits work.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

^ / A

What could have been done to make your education experience in ECE4112 better?

More professor instruction (in-depth analysis than what was covered in lab)

Do you have any additional comments or suggestions? (Use the back if you need it....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

Maybe the lab devoted solely to Botnets should be rolled into something else.

What was your favorite lab assignment and why?

I liked a whole bunch of them. Pretty much any lab that taught me bad things was cool.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

I really think that web security should be covered in depth. Plus, we should probably learn more tricks to get into SP2, since SP3 is a little dated.

What could have been done to make your education experience in ECE4112 better?

Pizza Parties on Tuesdays in class

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

What was your favorite lab assignment and why?

Tigon - it was the most open-ended, though there could be a lot added.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

What could have been done to make your education experience in ECE4112 better?

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

I think that in the current format, the firewall lab is one of the least useful. It either should be expanded to include more Cisco stuff or trimmed to fit in another lab.

What was your favorite lab assignment and why?

I enjoyed the tiger team lab. It allowed us to explore all of the stuff we had learned. And it was very open ended.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

What could have been done to make your education experience in ECE4112 better?

More theory about the labs. Either in class, or in the labs themselves.

Do you have any additional comments or suggestions? (Use the back if you need it....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

I feel that the best places to cut material is on some of the example virus, trojan, or bot programs which performed nearly very similar to each other just exploited different operating systems. It is not always necessary to see an example on both Windows and Linux. They felt the same strength at the time.

What was your favorite lab assignment and why?

I liked one on lab "TigerTeam Evaluation" or at least I liked the idea behind it. Despite all the associated problems with it, I liked how free form the lab was.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

What could have been done to make your education experience in ECE4112 better?

Shorter labs. I felt like I had to go through tons of trivial work in order to get to a point were I could recommend an addition. Honestly I learned more about the research from doing the lab directions vs. written.

Do you have any additional comments or suggestions? (Use the back if you need it....)

Again, I think the labs could have been shorter and accomplished the same goals. Maybe it's just me but I don't learn more when I'm forced to rework the same topic rather than simply follow directions.
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

The firewall lab should be the one to get. It was pretty informative but overall, the least interesting of the labs.

What was your favorite lab assignment and why?

The TCP/IP lab by far! It was really interesting to have first reign to try all the things we learned in class without worrying about getting arrested. This was also most informative on how attackers would approach a network and exploit its defenses.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

I'm not sure if this applies, but I didn't get much use from the text book.

What could have been done to make your education experience in ECE4112 better?

The lectures didn't seem very well guided. Rehashing the previous week's lab every week became pretty monotonous after a while. The lab addition presentations were great though.

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

All the labs are very interesting, however, if I had to pick one, it would be the web server lab.

What was your favorite lab assignment and why?

The wireless lab was my favorite because it really taught me the most.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

Some sections seem repetitive.

What could have been done to make your education experience in ECE4112 better?

Experience has been great, I really learned a lot.

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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We need to cut some material to make room for some new labs. Specifically what material do you recommend cutting from the lab. Which lab, or parts of labs should we remove?

A few of the first labs could be condensed into one lab to free more time for newer, up-to-date lab topics.

What was your favorite lab assignment and why?

The wireless lab due to the nature of wireless APs peopping up everywhere. I'm particularly interested in all things "wireless security."

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

I think IDS/IPS should be explored more in-depth. Snort is a very powerful tool which was barely touched in one of the labs.

What could have been done to make your education experience in ECE4112 better?

The labs need to be "reviewed" more closely. The labs need to do the lab "step-by-step" and make sure nothing is confusing. Half the time the labs were inconsistent with the lab-setup.

Do you have any additional comments or suggestions? (Use the back if you need it.....)

Altogether this class was VERY interesting. However, when I shared my experience with friends, specifically the lab inconsistencies.
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*don't need so many examples of viruses, worms and trojans
*VPN's were tedious, but useful, so could go either way

What was your favorite lab assignment and why?

*web security - XSS attacks, SQL injection
*were especially interesting

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

*good balance, very complete

What could have been done to make your education experience in ECE4112 better?

*emphasize students' making corrections more - still a lot of errors that slowed us down

Do you have any additional comments or suggestions? (Use the back if you need it.....)

*great course!
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Ans: Protocols.

What was your favorite lab assignment and why?

Ans: Worms and viruses, steganography.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

Ans: We should a lab concerning about Bluetooth as all networks are searching for a common ground for data transfer.

What could have been done to make your education experience in ECE4112 better?

Ans: Teaching different techniques in the class.

Do you have any additional comments or suggestions? (Use the back if you need it.....)

Ans: Teaching various theories about attacking different machines in class and divide students as groups of attackers or defenders.
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Original labs were of appropriate length

What was your favorite lab assignment and why?

Firewall lab because we got some hands on experience with firewalls.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

Firewalls should definitely be covered a little more

What could have been done to make your education experience in ECE4112 better?

I think overall is a good class but we could cover some parts more in depth.

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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I thought the Buffer overflow just as a lab was a little too much & maybe just a couple of sections on a web security lab.

What was your favorite lab assignment and why?

The Tiger team evaluation since it actually required us to use all our knowledge & tools to use.

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

I thought the Tiger team was a great concept and maybe should have been deepened or given an extra week.

What could have been done to make your education experience in ECE4112 better?

A little more theoretical insight in class.

Do you have any additional comments or suggestions? (Use the back if you need it.....)

Great lab which helped me learn a lot.
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*Cut the worm viruses*

What was your favorite lab assignment and why?

*The one on web and wireless security. This is a new technology that is different.*

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

*The times from lab should have had more time.*

What could have been done to make your education experience in ECE4112 better?

*You could teach some of the class. 20-30 mins, I tend to understand better when your taught the class.*

Do you have any additional comments or suggestions? (Use the back if you need it.....)
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The Tiger Team Evaluation Lab was the worst.

What was your favorite lab assignment and why?

Are there any topics in the course that you think should either not be covered or that we covered too much or too little? Please be specific. What do you think is missing from this course?

I did not like Honeynets, Firewalls. They were boring.

What could have been done to make your education experience in ECE4112 better?

Do you have any additional comments or suggestions? (Use the back if you need it.....)