

# Electronic Journal

**CMPT –235 Section 01**

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## January 13th

Class started! Hosea (the instructor for the class) lectured on the syllabus and the expectations of the class.

## January 20th

Class again this morning. We had three really good/long presentations that took up the whole 3 hour class! I notified Hosea by e-mail that I would be attempting “Cracking a WEP secured Network” as my final 40-minute research presentation.

## January 22nd

I started some research on WEP cracking. I’ve looked into this before, but hadn’t spent much time looking into the specifics. I decided to go with the “aircrack-ng” suite of tools to attempt the cracking. I’ve looked at other tools before, but this one seems to have the most help pages and tutorials on how to use it. The URL is: <http://www.aircrack-ng.org>

I found an e-mail from Newegg in my inbox today; I noticed that it had a ‘recertified’ **LINKSYS WUSB54GC-RM USB Wireless-G Adapter** featured for cheap. I almost impulse-bought it, but remembered that some USB adapters don’t work well for cracking. I checked ( [http://www.aircrack-ng.org/doku.php?id=compatibility\\_drivers&DokuWiki=89d4dd0897b65e3fa93336720a326be1#which\\_is\\_the\\_best\\_card\\_to\\_buy](http://www.aircrack-ng.org/doku.php?id=compatibility_drivers&DokuWiki=89d4dd0897b65e3fa93336720a326be1#which_is_the_best_card_to_buy) ) to find which chipset is used by the adapter, and found that it was the WUSB54G v1, which has a Ralink RT73 chipset. By doing a little more searching, I’ve found that the Ralink RT73 is a good chipset to attempt cracking with! With a bit more looking, I found the chipset’s driver page on Aircrack-ng’s website: <http://www.aircrack-ng.org/doku.php?id=rt73> I’m positive this will help me in the future. So, I’ve purchased the USB Adapter, here’s to hoping it shows up next week. I’m a bit worried that it’s recertified (different than refurbished, I know), but we’ll see.

## January 26th

Received the adapter today. Turns out that it was completely different than the one I wanted. It was the version 3 adapter, not the version 1. I contacted Newegg support and was promptly told that they cannot guarantee the version of the product. Not happy. I’m back to square one. Starting to look on e-bay for a version 1 adapter.

Also today I finished up my research for my first presentation, which I’ve decided to be my Maintenance Software presentation; it’s on Anti-Virus software.

## January 27th

Class today, I did my first presentation! I thought it went well, got an A! (It’s up on <http://www.matt-pc.com/cmpt235.php>)

## February 3rd

Class today! Project 1 was due, which was registering my FQDN and creating a website. I did this before today, but I'll put it here. I've created my website with the URL of <http://www.matt-pc.com>. I decided to go with GoDaddy.com for both the site name and hosting. Took a bit to figure out how to work everything, but it's all working now. I'm using PHP in almost all the pages so I can edit only a small section easily.

## February 10th

Class today! Not much else going on...Presentation next week.

## February 11th

Won a D-LINK router on eBay today! I'll use this to practice cracking WEP keys. Also, I won a Linksys WUSB54GC Wireless adapter today! This is version 1, so it'll work. Can't wait for these to come in!

## February 16th

I worked on my presentation for tomorrow. Presentation #2 is going to be on OpenGL vs. DirectX. Much of the research I've done before hand for this presentation, so I pretty much only had to type up the PowerPoint. Wikipedia helped a bunch, but most of the information is from links on a blog post at <http://blog.wolfire.com/2010/01/Why-you-should-use-OpenGL-and-not-DirectX> - an awesome indie-game development team's website.

## February 17th

Class today! Presentation #2! Thought it went really well, got a couple people say it was interesting. Got an A! Got my Wireless Adapter today!

## February 22nd

I came in early today to work on Instructor Project #2. Found an awesome how-to online: [http://www.msexchange.org/tutorials/SSL\\_Enabling\\_OWA\\_2003.html](http://www.msexchange.org/tutorials/SSL_Enabling_OWA_2003.html) I tried to follow it, but failed. I'll try again another day.

## **February 24th**

Class today! A couple interesting presentations and we got out after only about an hour and a half. I started to run through Instructor Project #2 again. This time I got it to completion using the how-to! Process was Install IIS (reboot) -> Install Certificate Services -> Create the default web page with SSL Certificate -> Create secondary web page on port 81. The secondary page is the welcome page and it links to the secure page. (<https://192.168.10.30/index.html>) Also, my router came in today!

## **March 3rd**

Class today! More presentations.

## **March 10th**

Class today! We had the Instructor Project #2 to do in class. I got a couple good tips right before class, and they helped me out tremendously. I got stuck once in the task and had to start from scratch, but after that, everything worked perfectly! Got an A!

## **March 15-20th**

Spring Break! Wanted to get so much done this week, but failed to do so. Oh, well.

## **March 23rd**

Finished up my “Web E-mail Clients” presentation research and PowerPoint. I’m so glad that Zeke let me choose this as my third presentation. I liked doing the research on this one; I created a new account on each “Gmail”, “Yahoo! Mail”, and “Windows Live Hotmail” to test them out. I’m still sticking with Gmail!

## **March 24th**

Class today! I presented the last of my regular presentations today: “Web E-mail Clients” I thought it went well, I got an A!

## **March 31st**

Class today! We had more presentations today, and we were told that the Presentation Exam would be online! I’ll take it this Saturday.

## **April 3rd**

Completed the Presentation Exam today. I was kind of worried, it said that I submitted it late when I really didn’t. I don’t know what’s up with that...

## **April 7th**

Class today! This was the first day for Research Presentations. I can't wait to see what everyone else did.

## **April 14th**

Class again! More Research Presentations... After class I finally got Slax to work on a virtual machine. Once I got it working in VM Ware, I connected my USB Adapter to the virtual machine and got onto the SMCC wireless network! I am so happy, that's been holding me back for a while.

## **April 21st**

Class today! Another round of Research Presentations.

## **April 23rd**

I finally got everything set up at my house to do a full test run for my research presentation. It took long enough, but it's all together now. I took a bunch of pictures during the set-up and testing phase. I tried to use Slax as well as Slackware to run Aircrack-ng after this. However, Slax was a temporary OS and couldn't be used. Also, Slackware gave me many issues when I tried to install it to VM Ware. I finally went with Aircrack's own Virtual Machine, specially made for VM Ware. It was very complicated to set up, and locked up a couple times before I got it working. It took me two hours to figure out how to update the Virtual Machine. I finally figured it out by simply using my on-board wireless card. After this I GOT IT TO WORK! I hacked my first WEP key.

## **April 27th**

Ran through the WEP key cracking process again. Created my PowerPoint and ran through what I am going to say tomorrow.

## **April 28th**

Today's the big day! My research presentation is due today. I'm so glad the Tyler and I are going on the same day. I let him use my wireless router with his presentation, and when he was finished, I demonstrated in my presentation how to crack into his server! It was awesome! I got an A!

## **May 4th**

Day before the last day of class! I finished my E-Portfolio, I chose some good Artifacts for it I think. Tomorrow is going to be fun! This is the last entry in this journal, as tomorrow is the due date. I enjoyed our time together, journal, I'm sorry for writing so sparsely in you!