

Advances in Cybersecurity, Winter 2015

(updated on Jan 5, 2015)

COURSE WEBSITE:	CLEW AT HTTP://WWW.UWINDSOR.CA/CLEW
Time & Location:	8:30am-11:20am, Tuesday, 2173 CN
Professor:	Dr. Huapeng Wu
	Phone: ext 2568, Email: hwu@uwindsor.ca, Office: 3049CEI
Office hours:	2:30pm-3:30pm, Wednesday and Thursday
Midterm exam:	Tue. Feb 24, 2015 at 2173 CN (in class)
Final exam:	Sat. Apr 18, 2015 (location TBA)

Objective:

Cybersecurity has been paid much attention recently because our daily life depends on a stable, safe, and resilient cyberspace. People rely on a vast array of cyber-networks to communicate and travel, power our homes, run our economy, and provide services. Yet cyber intrusions and attacks have increased dramatically over the last decade, exposing sensitive personal and business information, disrupting critical operations, and imposing high costs on our society. This course is trying to provide students an overall picture of the cyber security area, which includes an overview to cyber vulnerabilities and various cyber crimes, a technical review of security measures to protect our computers and communication networks from such attacks, and an introduction to the current standards and regulations on cybersecurity by professional organizations and governments.

Contents:

Cybersecurity and our daily lives; Cyber vulnerabilities and malicious activities; Legal issues and regulations; Security measures including firewall, intrusion detection and cryptography; Secure cyber networks system, Secure software, Secure hardware architecture.

Textbook & Reference Book:

There is no textbook. Lecture notes and a list of reference books and papers will be provided in class.

Grading:

Assignments:	10%
Midterm exam:	20%
Project(s):	30%
Final exam:	40%

Other Important Messages:

- Students taking this course should have certain programming skill with a major computer language.
- Assignments and project reports are submitted electronically through Clew website. No email submission or hardcopy submission is allowed. Late submissions will be deducted 10% per day up to 3 days (after which no submission will be accepted). If you submit late or miss a submission due to medical or other reason please contact the professor as soon as possible.
- Students are welcomed to visit the professor's office during office hours. Visit during none-office hours should be pre-arranged through email. Email anytime is welcomed. I will reply your email within 24 hours during work days if not immediately. Please use your UWind email account and add [88590-16] to your email subject, otherwise response could be delayed.
- Both midterm and final exams are closed-book, but two pages (single-sided, letter size) of formula sheets are allowed for midterm, and four pages of formula sheets are allowed for the final.