

# COMPUTER SECURITY

1 July 2020

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<b>Instructor:</b>	Songrit Kitisiworapan	<b>Time:</b>	Tue 9:00 – 12:00
<b>Email:</b>	<a href="mailto:songrit@npu.ac.th">songrit@npu.ac.th</a>	<b>Place:</b>	EN1303 (Network Lab)

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## Course Pages:

1. <https://github.com/Lecture-CPE/424>
2. <https://git.npu.world/Lecture-CPE/424>

**Office Hours:** After class, or by appointment, or E-mail.

**Main References:**(recommended, not required)

- Wenliang Du, "Computer Security: A Hands-on Approach" 2nd Edition, (ISBN: 978-1733003902)

**Objectives:** This course is primarily designed for undergraduate students. Students become familiar with cyber security, computer vulnerability and exploit.

**Prerequisites:** None

**Grading Policy:** In-class project (50%), Quizzes (10%), Major services (15%), Midterm (25%),

**Important Dates:**

Midterm ..... 24-30 Aug, 2020

## Course Policy:

- Grading A, B+, B, C+, C, D+, D, F(< 50%)

## Class Policy:

- Regular attendance is essential and expected.

**Academic Honesty:** Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation.

**Tentative Course Outline:**

Week	Description
1	Course orientation Introduction
2	Vulnerability and Exploit
3	Binary and execution file
4	Layer 2 attack
5	Layer 3 attack
6	Remote code execution
7	<b>Midterm Exam</b>
8	Site visited
9	Phishing and Pharming attack
10	XSS (Cross Site scripting)
11	Cookies attack
12	Cryptographic issues
13	SQL injection
14	Reverse shell
15	Preparing for CTF
16	<b>Final Exam</b>