



Sungkyunkwan University (SKKU) International Summer Semester (ISS) 2022

# Introduction to Information Security

Prof. Simon S. Woo, Applied Data Science Dept. at SKKU

## SHORT COURSE DESCRIPTION

---

A broad overview of security threats and defenses, security systems and functionalities, as well as current security practices. Includes homeworks and in-class exercises to provide practical experience working with such systems.

## READING MATERIALS

---

Will be provided by the instructor

## COURSE REQUIREMENTS AND GRADING

---

Pass/fail grading (grade of 60 or above is Pass)

Attendance: 10% (SKKU regulations require students to attend at least 80% of all classes.)

HWs: 50%

Final Presentation: 40%

## COURSE SCHEDULE

---

### – WEEK I –

Mon (27 June) 1. Introduction to Security

Tues (28 June) 2. Overview of Computer and Information Security

Wed (29 June) 3. Authentication (I)

Th (30 June) 4. Authentication (II)

### – WEEK II –

Mon (4 July) 5. Cryptography (I)

Tues (5 July) 6. Cryptography (II)

Wed (6 July) 7. Overview of Network Security

Th (7 July) 8. DNS system security

### – WEEK III –

Mon (11 July) 9. Denial of Service (DoS) Attack

Tues (12 July) 10. Introduction to Usable Security

Wed (13 July) 11. Introduction to System Security

Th (14 July) 12. AI Security (I)

Fri (15 July) 13. AI Security (II)

**– WEEK IV–**

Mon (18 July) 14. Final Presentation 1

Tues (19 July) 15. Final Presentation 2