



# Course Introduction

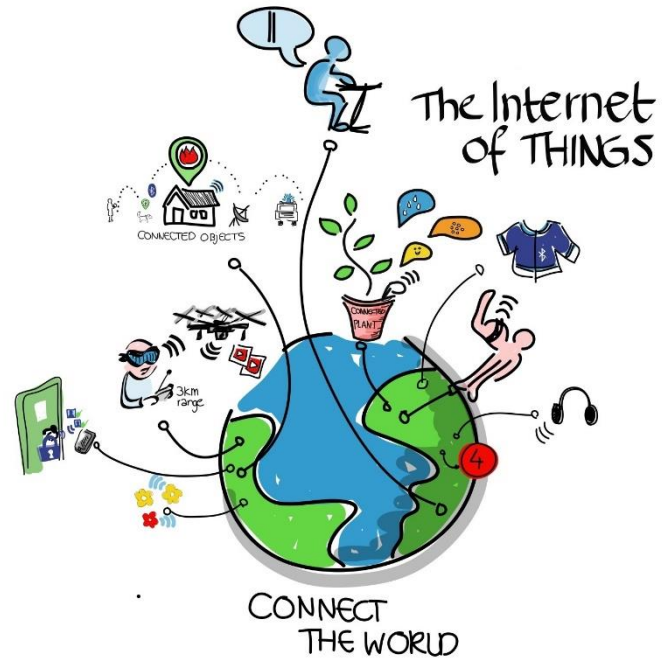
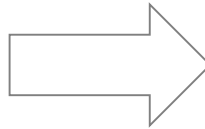
**Information Security**  
**2021 Spring Semester**  
**Younho Lee**



Computer has valuable information



# Computers are connected



They can control our (physical) world!

# Course Overview (Cont'd)

## ❖ This course focuses on the technical aspects of information security

- List of the techniques and their usages



- On various IT areas
  - Network security
  - Database security
  - ....



# Course Overview (Cont'd)

## ❖ Contents

1	Overview (Chapter 1) (3.8)
2	Cryptographic Tools (Chapter 2) (3.15)
3	Cryptographic algorithms: Symmetric Encryption and Message Confidentiality (Chapter 20) (3.22)
4	Cryptographic algorithms: Public key cryptography and message authentication (Chapter 21) (3.29)
5	User authentication (Chapter 3) (4.5)
6	Access control (Chapter 4) (4.12)
7	Database and Data center security (Chapter 5) (4.19)
8	Midterm week (4.26)
9	Denial of Service Attack (Chapter 7) (5.3)
10	Intrusion Detection and Firewalls and Intrusion Prevention System (Chapter 8/9) (5.10)
11	Malicious Software (Chapter 6) (5.17)
12	Buffer Overflow (Chapter 10) (5.24)
13	Software Security (Chapter 11) (5.31)
14	Reserved (6.7)
15	Final Exam (6.14)

# Course Overview (Cont'd)

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## ❖ Grading

- 20% - homework (Programming problem)
- 40%/40% midterm exam/final exam

## ❖ Younho Lee

- Frontier bldg. #712-2
- Office hour
  - Appointment based

## ❖ Textbook

- W. Stallings and L. Brown, "Computer Security: Principles and Practice"  
(Global Ed.) 4<sup>th</sup> Ed.

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# Questions?

