

# CSED601: Dependable Computing

Fall 2018: Mon & Wed 14:00 ~ 15:15

Instructor: Prof. Jong Kim

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Office Hours: M-Th 16:00 ~ 17:00

## Objectives

- Understanding the fundamental issues involved with providing dependable computing environments
- In-depth understanding of techniques for constructing dependable systems and software
- Understanding open research issues
- Gain practice and competence in reading, analyzing, presenting research papers.

## Prerequisite and Special Requirement

- No Specific Prerequisite (Recommend CA, OS, Networks)
- Must attend all classes

## Tentative Grading Policy

- Homework/Quiz : 20%
- Midterm : 20%
- Final : 20%
- Project/Presentation : 40%

## Texts

- Jalote, "Fault-Tolerance in Distributed Systems"
- Barry W Johnson, "Design and Analysis of Fault-Tolerant Systems"
- Selected Papers

## Lecture Schedule

Week 1 : Introduction & Overview

Week 2 : Fundamental Definitions

Week 3 : Design Technique

Week 4 : "

Week 5 : Evaluation Technique

Week 6 : "

Week 7 :

Week 8 : Distributed Systems and Fault-Tolerance (mid-term)

Week 9 : Case Studies (Student Presentation) "

Week 10: Case Studies (Student Presentation)

Week 11: Research Topics (Student Presentation and Discussion)

Week 12: Research Topics (Student Presentation and Discussion)

Week 13: Research Topics (Student Presentation and Discussion)

Week 14: Research Topics (Student Presentation and Discussion)

Week 15 Research Topics (Student Presentation and Discussion))

Week 16: Final Exam & Project Presentation