IE 242: Engineering Statistics II
Fall 2026

Class Information

Time: TR 10:30pm –11:45pm
Classroom: Room 1501, E2-2

Instructor Information

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Office Hours: By appointment

TA Information

TBA

Course Description

This course covers general principles of statistical hypothesis testing, linear models with practice and inference, analysis of variance, basic experimental design, and contingency table analysis.

Lecture slides will be uploaded to the KLMS page. The lecture slides will be continuously updated, so please download the latest version.

Topics

- Hypothesis testing
- Linear models
- Analysis of variance
- Analysis of categorical data

Prerequisites

Students should have a basic working knowledge of statistical methods and a good understanding of IE 241 and linear algebra.

Textbook

“Mathematical Statistics with Applications” by Wackerly et al, “Introduction to linear regression analysis" by Montgomery et al. Some material may be taken from other references.

Grading

The course grade is determined by the following components:

Quizzes (2 planned)	40% (20% each)
Midterm exam	30%
Final exam	30%

- All quizzes and exams are closed-book and closed-notes, with no cheat sheets and calculators.

Academic Honesty

Academic dishonesty, such as using unauthorized materials during a quiz or exam or copying from or communicating with another student during an assessment, violates the Honor Code. Any instance of strikingly similar exam papers will be reported to KAIST and will result in an immediate 'F' grade for the involved students.

Anything in this syllabus is subject to change at the discretion of the instructor.