Syllabus

Fundamentals of Engineering Acoustics

ECE 473 **Fall 2026**

Instructor: Professor Michael L Oelze, PhD

Office: Beckman Institute 4251, Ph: 3-9226

Office hours: 1:30-2:30pm T; 2:00-3:00pm Th (Beckman 4251)

Email: oelze@illinois.edu

Text: "Fundamentals of Acoustics," 4th edition, Kinsler, Frey, Coppens and Sanders (John Wiley & Sons, New York, 2000)

Grading:

Homework	25% (Homework typically due each Friday) (**no late homework accepted**)
Exams (2 @ 20%)	40%
Final Exam	35%

All exams will be open notes and open book.
No phones or calculators allowed.

Graduate students taking the course for 4 hours rather than 3 hours should write a paper dealing with some aspect of acoustics that will be worth one third of their homework grade (typically 8 pages with minimum of 5 peer-reviewed references).

Course will cover:

- Chapters 1 and 2 (Basics)
  - Chapter 1: 1-7
  - Chapter 2: 1-8, 9a, 10
- Chapters 5, 6, 8, 9 and 10 (Transmission Phenomena)
  - Chapter 5: 1-12
  - Chapter 6: 1-6
  - Chapter 8: All (?)
  - Chapter 9: 1-2
  - Chapter 10: All
- Chapters 7 and 14 (Production/Reception)
  - Chapter 7:1-6, 8
  - Chapter 14: 1-5, 7-13 (?), most likely just 7

Lecture notes are available at https://courses.grainger.illinois.edu/ece473/fa2026/index.htm
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