INTRODUCTION TO SPEECH SCIENCE

WEEK 7: THE CHALLENGE OF SPEECH PERCEPTION

AT THE END OF THIS SESSION, YOU SHOULD KNOW:

- What are the basic acoustic cues for speech
- Why phonemes are not "beads on a string"
- The major sources of variability in the speech signal
- How adding noise makes speech recognition difficult
- That speech does not have any "necessary or sufficient" cues

Readings on acoustic cues

Recommended:

Ladefoged, P. (1993). A Course In Phonetics. Chapter 3.

Fry, D. B. (1979). The Physics of Speech. Chapter 10.

Background:

Ladefoged, P. (1996). *Elements Of Acoustic Phonetics*. Chapter 8.