Introduction to Speech Science

Lecture 1: The Speech Chain

Who are you?

MSc Speech and Language Sciences (Human Communication Sciences)

Intercalated BSc Speech Sciences

MA Phonology

PhD students, affiliate students, academic visitors

Who are we?

Course Tutor: Paul Iverson





Laboratory tutors: Andy Faulkner, Steve Nevard, Matthew Smith, Dave Cushing

Occasional tutors: Stuart Rosen, Mark Huckvale





Format of course

Lecture: Thursday 9 - 9.50 am

Followed by (10:00 - 11:30)

Lab session + round-up

OR

Review tutorials

Learning resources

Course and laboratory handouts

Course website:

www.phon.ucl.ac.uk/courses/spsci/ish/

Textbook: The Speech Chain (Denes

and Pinson)

Readings (on loan from Listening Centre)

Multimedia software (LC)

Recommended web sites

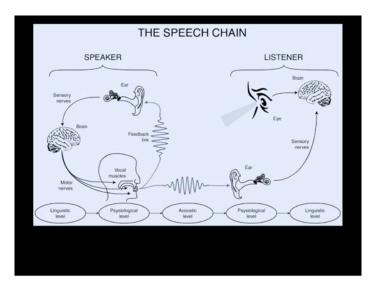
Today's lecture

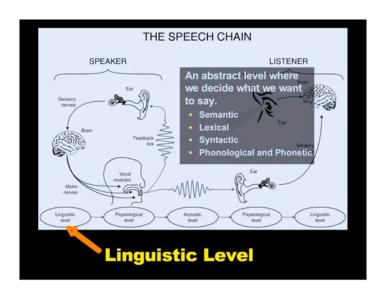
Introduction to the speech chain

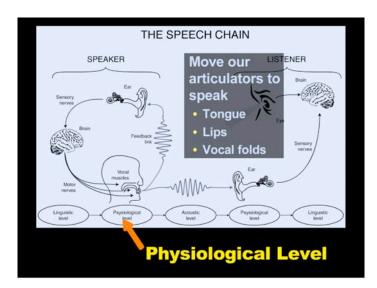
 A rough overview of how we produce and understand speech

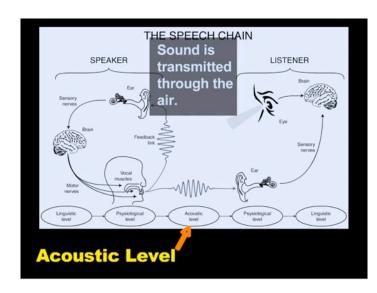
Why this material is relevant to you

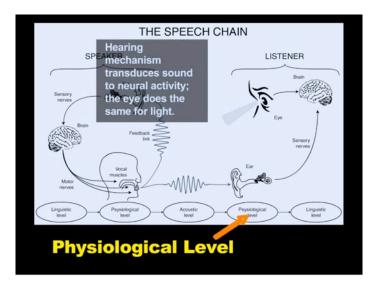
Summary of Term I lectures

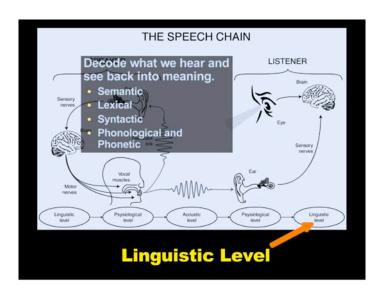


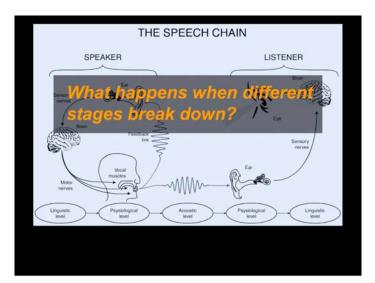


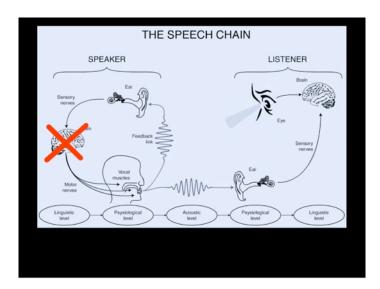


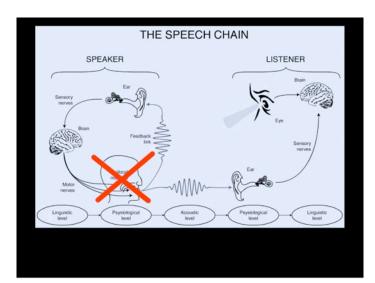


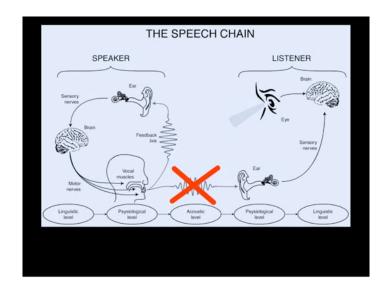


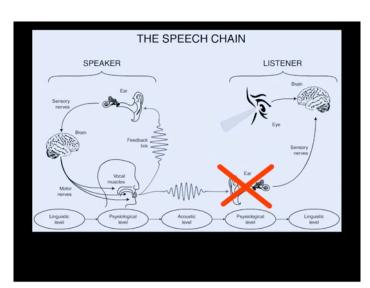


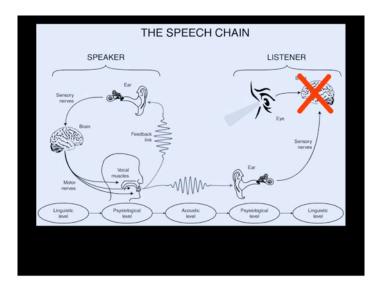


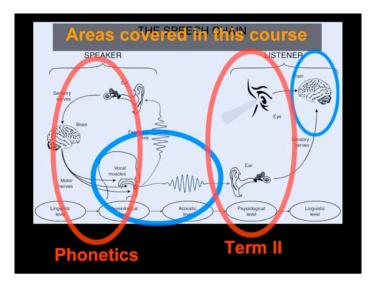












Why bother learning this?

Basic science

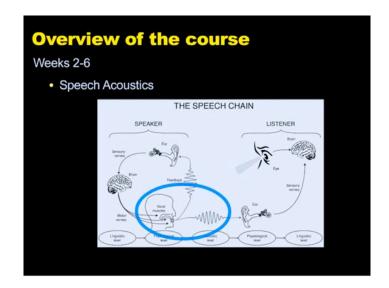
• No *direct* application to speech therapy

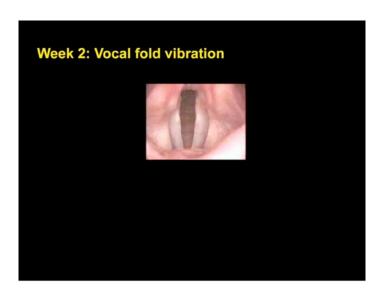
Gives a context to your clinical training

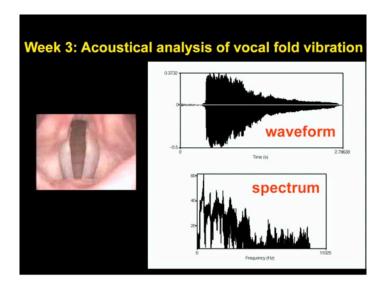
Helps you deal with novel clinical situations

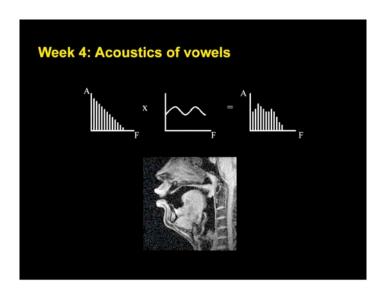
Helps you learn new material

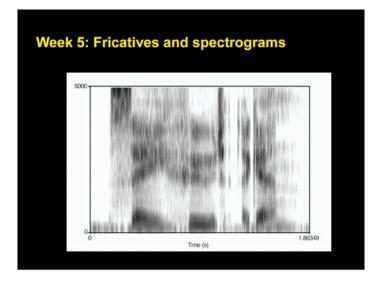
Helps you interact with other professionals

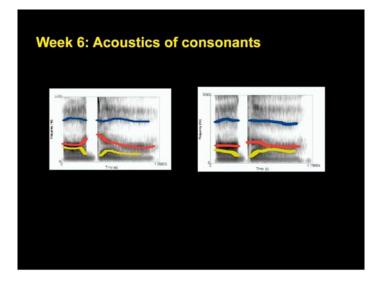












Weeks 7-10 • Speech Perception THE SPEECH CHAIN SPEAKER LISTENER Listen

Speech Perception

Phonetic perception

- What low-level processes help us to understand speech?
- Categorical perception, perceptual tuning, cue multiplicity, visual cues

Effects of linguistic structure

- How does our knowledge of language help us to understand speech?
- · Lexical neighborhoods, contextual information
- How does this affect the design of speech tests?

Development of speech perception

Second-language learning

