



**LUND**  
UNIVERSITY

Faculties of Humanities and Theology

## LINC01, Linguistics: Voice and Speech, 7.5 credits

*Lingvistik: Rösten och talet, 7,5 högskolepoäng*

First Cycle / Grundnivå

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### Details of approval

The syllabus was approved by the programmes director by delegation from the pro-dean for first- and second-cycle studies on 2007-03-30 and was last revised on 2017-01-12 by The pro-dean for First-Cycle Studies at the Faculties of Humanities and Theology. The revised syllabus applies from 2017-01-12, spring semester 2017.

### General Information

The course is offered as a freestanding course. It can normally be included in a first or second cycle degree. With the approval of the relevant authenticating body, it can also be included in certain professional degrees.

*Language of instruction:* Swedish

*Main field of studies*

Linguistics with specialization in General Linguistics

Linguistics with specialization in Phonetics

*Depth of study relative to the degree requirements*

G1F, First cycle, has less than 60 credits in first-cycle course/s as entry requirements

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### Learning outcomes

On completion of the course, the students shall be able to

#### Knowledge and understanding

- describe basic relationships between acoustic and perceptual variables
- account for the acoustic patterns of vowel and consonant categories, and for theories of the links between these patterns on the one hand, and the production and perception on the other

- present basic, phonetically relevant facts about the role of the nervous system and the ear in speech communication
- explain the basics of psychoacoustics and speech perception theory

### **Competence and skills**

- account for general acoustic elements, the source-filter perspective on speech sounds, and have overview knowledge of the methods used to produce spectra and spectrograms
- interpret spectrograms
- relate the acoustic properties of the voice to the gender of the speaker

### **Course content**

The course systematically deals with basic concepts such as frequency, resonance, filtering, tones and formants, using different sound illustrations. A skills focus is placed on the ability to interpret sound spectrograms. The laboratory exercises are used to illustrate various acoustic and perceptual aspects of sound. Students are provided with overview knowledge of the speech signal in relation to the ear and the nervous system. The course covers basic facts about our experience of pitch and loudness (so called psychoacoustics) and some hypotheses about general speech perception. Furthermore, the course deals with the human voice from articulatory, acoustic and perceptual perspectives. The topics addressed include speech pitch, speech volume, timbre, voice development and the singing voice, with regard to the differences between male and female voices, among other things

### **Course design**

The teaching consists of lectures, laboratory exercises and exercises in spectrogram readings.

### **Assessment**

The assessment is based on a written invigilated exam and a written report of an acoustic analysis.

*Subcourses that are part of this course can be found in an appendix at the end of this document.*

### **Grades**

Marking scale: Fail, Pass, Pass with distinction.

## Entry requirements

To be admitted to the course, students must have passed course LINB01, Linguistics: Speech Communication- The Basics of Phonetics, or the equivalent.

## Further information

1. The course is offered at the the Centre for Languages and Literature, Lund University.
2. The course replaces FON230.
3. The credits allocated for course content that in whole or in part is commensurate with another course can only be credited once for a degree. For further details see the current registration information and other relevant documentation.
4. The course has overlapping content with module 3 of LINA23 (Linguistics, Level 2, 30 credits) and may not be included in a degree together with this course.

## Subcourses in LINC01, Linguistics: Voice and Speech

Applies from V08

0701 Examination, 7,5 hp  
Grading scale: Fail, Pass, Pass with distinction