SAHLGRENSKA ACADEMY

LP1040, Production, perception & acoustics of speech 2, 6.0 credits
Talets produktion, perception och akustik 2, 6,0 högskolepoäng

First Cycle

1. Establishment
The course syllabus was established by the Programme Committee for Audiology and Speech and Language Pathology on 23 May 2007 and was most recently revised 20 March 2012. The revised course syllabus applies as of 20 March 2012.

Disciplinary domain: Arts 100%
Responsible department: The Institute of Neuroscience and Physiology

2 Placement
The course is in the first cycle in semester 4 of the Speech and Language Pathology Programme.

Main field of study
Linguistics

Specialisation
G2F, First cycle, has less than 60 credits course(s) in the first cycle as entry requirements

3. Entry requirements
The student must have been admitted to the Speech and Language Pathology Programme according to applicable requirements for general and specific entry requirements.

4. Contents
The course comprises the following components:
1. Elements of the spoken voice
2. Apparatus and methods for the study of speech production
3. Acoustic elements
4. Resonance, filtering
5. Source-filter theory of phoneme production
6. Acoustic structure of speech
7. Sound perception and speech perception
8. Spectrogram interpretation
9. Theories of the inner ear frequency analysis
10. Multimodal perception
11. Speech technology
12. Basic aerodynamic concepts
13. Speech prosody

5. Goals
After completing the course, the student is expected to be able to:

Knowledge and understanding
- describe the production, transmission and perception of speech signals, the structure and function of the speech apparatus, the articulatory, acoustic and perceptual characteristics of phonemes, and methods and tools for the examination of articulation, acoustics and perception

Skills and abilities
- perform phonetic and phonological analysis of language and speech
- present an account of and use relevant terminology in the field of knowledge
- relate to the course literature and make independent reflections
- use an acoustic sound analysis programme on one's own

Judgement and approach
- discuss issues using common phonetic and phonological terminology in an insightful manner.

6. Literature
See appendix.

7. Forms of assessment
Instruction consists of lectures, seminars and laboratory sessions. The course is examined through active participation in seminars and through a written take-home examination at the end of the course. Attendance is compulsory for laboratory sessions and seminars. The laboratory sessions are examined by turning in laboratory assignments. The examination focuses on subject knowledge and linguistic analysis skills. In the event that the student does not participate in compulsory components or turn in assignments in the allotted time, additional assignments must be done as determined by the teacher.

If practically possible, students have the right to change examiners after having failed the same examination twice. Such a request is submitted to the department and must be in writing.

8. Grades
The grading scale comprises the grades Failed (F) and Pass (P).

On 2 November 2006, the Academy Board decided that a two-grade grading scale should be applied to courses at the Sahlgrenska Academy.
9. Course evaluation

A course evaluation is done in writing using Sahlgrenska Academy's shared course evaluation and orally in dialogue with the students. The teacher in charge of the course compiles an analysis of the course evaluations, makes proposals on the development of the course and is also responsible for feedback to the students.

10. Other

Language of instruction: Swedish.

If the course is discontinued or changed, a student that began the course according to this course syllabus can be examined within three years.
Appendix (1) to the course syllabus

Literature list LP1040, Production, perception & acoustics of speech II, 6 credits

The literature list was set by the Programme Committee for first and second cycle courses in audiology and speech and language pathology on 3 February 2011.

The course literature is linked to the university library’s shared library catalogue
GUNDA Red titles are not linked to Gunda

Compulsory literature


Around 50 pages of hand-out articles and laboratory material is also included.

Reference literature


