



**Karolinska  
Institutet**

Course syllabus for

## **Sound perception, 7.5 credits**

Ljudperception, 7.5 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

Please note that the course syllabus is available in the following versions:

Spring2009 , Autumn2010 , Autumn2011 , Autumn2012 , Autumn2013 , Autumn2014

Course code	1AU005
Course name	Sound perception
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Audiology
Level	G2 - First cycle 2
Grading scale	Pass, Fail
Department	Department of Clinical Science, Intervention and Technology
Decided by	Programnämnden för audionomprogrammet
Decision date	2008-10-22
Revised by	Programnämnd 4
Last revision	2012-05-03
Course syllabus valid from	Autumn 2012

## **Specific entry requirements**

For admission to the course the student have had completed at least 80 % (48 credits) of courses at semester 1 and 2.

## **Objectives**

The general the aim of the course is to give the student basic knowledge how man notices and experiences sound and about psychoacoustic concepts and methods of measurement.

The expected learning outcomes of the course

On completion of the course, the student should

- be able to describe and explain concepts such as auditory threshold, loudness, masking, time - and frequency resolution and binaural hearing phenomenon, and be able to relate these concepts to the normal handling individual's audial experience and how this can be measured
- be able to relate the most common types of hearing impairments to perceptual consequences
- be able to choose critically and apply simple psychoacoustic methods of measurement.

# Content

**Auditory perception, 6 hp** The part lights up how man notices and experiences sounds. The emphasis lies on perception, but the course include also cognitive aspects on handling. Basic psychoacoustic constitutes the main part of the course. Here is treated, how different physical properties of sound are perceived by man. Concepts as auditory threshold, loudness, masking, time - and frequency resolution and localisation be discussed included. The normal handling is such as treated perceptual consequences of the most common types of hearing impairments. **Psychoacoustic measurements, 1.5 hp** In this part, psychoacoustic methods of measurement are treated. Be treated here in theory and placement how one carries out psychoacoustic measurements.

## Teaching methods

Lectures, laboratory sessions, seminars, an interactive computer program is offered as complements to self-study.

## Examination

Examination takes place through

Part 1: Auditory perception, 6 HE credits

Written examination

Part 2: Psychoacoustic measurements, 1.5 HE credits

Written laboratory report as also be presented orally

For a Pass grade in the course, attendance at compulsory parts is also required. In case of absence from compulsory part, the student is responsible alone to contact course coordinator for complementary assignment. Possibility is given for students who not have become passed at the regular examination to total six examinations, of which the three last in connection with the next occasion then the course is given.

## Transitional provisions

Examination can take place according to earlier literature list during a time of a year after the date then a renewal of the literature list been made. Examination will be provided during a time of two years after a possible close-down of the course.

## Other directives

Study supervision containing assessment criteria for examination, specific instructions for certain tasks and timetable with specification of compulsory parts and list of responsible teachers be distributed at the beginning of the course.

Course evaluation will be carried out according to the guidelines that are established by the Board of education. Course evaluation is carried out both through a written course evaluation at the end of the course and and through oral course forum at least once in connection with course where students can state his opinions.

## Literature and other teaching aids

*Plack, Christopher J.*

**The sense of hearing**

Mahwah, N. J. : Erlbaum, 2005 - xi, 267 s.

ISBN:0-8058-4883-5 (alk. paper) LIBRIS-ID:10035183

[Library search](#)

*SAME*

**Handbok i hörselmätning**

*Almqvist, Bengt*

[Ny utg.] : Bromma : SAME och C-A Tegner AB, 2004 - 242 s.

ISBN:91-631-4908-7 LIBRIS-ID:9481154

[Library search](#)

*Stadler, S; Olsen, H; Johnson, A-C*

**Auditiv perception – ett interaktivt läromedel. : Ett datorprogram på CD**

Stockholm : Karolinska Institutet, 2005

**Audiology : diagnosis**

*Roeser, Ross J.*

New York : Thieme, 2000 - xiii, 640 s.

ISBN:0-86577-857-4 (TNY) LIBRIS-ID:6172151

[Library search](#)

**Hörapparatutprovning**

*Borryd, Agneta; Smeds, Karolina; Leijon, Arne*

1. uppl. : Bromma : CA Tegnér AB, cop. 2000 - 352 s.

ISBN:91-630-9498-3 (inb.) LIBRIS-ID:8364995

[Library search](#)

*Moore, Brian C. J.*

**An introduction to the psychology of hearing**

5. ed. : London : Academic Press, Press,c cop. 2004 - xvi, 413 s.

ISBN:0-12-505628-1 (hft.) LIBRIS-ID:8909395

[Library search](#)

*Moore, Brian C. J.*

**Cochlear hearing loss**

London : Whurr, c1998 - viii, 312p

ISBN:1-86156-091-5 (pbk) LIBRIS-ID:6509600

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