

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 of Clinical Science, Intervention and Technology

Decided by Programnämnden för audionomprogrammet

Decision date 2008-10-22

Revised by Education committee CLINTEC

Last revision 2017-04-27 Course syllabus valid from Autumn 2014

Specific entry requirements

For admission to the course, it is required that the student has managed at least 45 HE credits from Semester 1-2 and a Pass grade in Part 1 and 2 from the course Hearing assessment 1.

Objectives

The general the aim of the course is to give the student a basic knowledge in how humans notice and experience sounds, as well as 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-hearing individual's audial experience and how this can be measured
- relate the most common types of hearing impairments to perceptual consequences
- critically choose and apply simple psychoacoustic methods of measurement.

Course code: 1AU005

Content

The course consists of two modules:

Auditory perception, 4.5 hp This module highlights how humans notice and experience sounds. The emphasis lies on perception, but the course also includes cognitive aspects of hearing. Basic psychoacoustic constitutes the main part of the course. is treated, This covers how different physical properties of sound are perceived by humans. Concepts such as auditory threshold, loudness, masking, time and frequency resolution and localisation are thoroughly discussed. Normal hearing is covered, as well as perceptual consequences of the most common types of hearing impairments. **Psychoacoustic measurements**, **3 hp** In this module, psychoacoustic methods of measurement are covered. How one carries out psychoacoustic measurements is covered in theory and practice.

Teaching methods

Lectures, laboratory sessions, seminars, an interactive computer program and self-study.

Laboratory sessions and seminars are compulsory. In case of absence from a compulsory part, the student is responsible for contacting the course coordinator for a complementary assignment.

The course coordinator decides how absence from compulsory course elements can be made up. Study results cannot be reported until the student has participated in compulsory course elements or compensated for any absence in accordance with instructions from the course coordinator. Absence from a compulsory course element could mean that the student can not retake the element until the next time the course is offered.

Examination

Auditory perception, 4,5 credits Written examination

Psychoacoustic measurements, 3 credits

Written laboratory report by group which is also pr

Written laboratory report by group which is also presented orally

For a Pass grade in the course, attendance and active participation in compulsory parts are also required. Students who do not pass a regular examination are entitled to re-sit the examination on five more occasions. Each time the course is offered, one regular examination and two additional examinations are given. Each occasion the student participates in the same test counts as an examination. Supplementary addition to a written assignment is counted as one examination. Submission of a blank exam paper is regarded as an In case a student is registered for an examination but does not attend, this is not regarded as an examination.

Transitional provisions

The course has been cancelled and was offered for the last time in the fall semester of 2014. Examination will be provided until the spring of 2018 for students who have not completed the course.

Other directives

The course evaluation will be carried out according to the guidelines that are established by the Board of education. The course evaluation will be carried out both through a written course evaluation at the end of the course, and through an oral course forum at least once in connection with the course, during which the students can state their opinions.

Course code: 1AU005

Literature and other teaching aids

Mandatory literature

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

Moore BC. Perceptual consequences of cochlear hearing loss and their implications for the design of hearing aids. Ear and Hearing. 1996 apr;17(2):133-61.

Scientific papers and other relevant literature may be added.

Moore, Brian C. J.

An introduction to the psychology of hearing

6th ed.: Bingley: Emerald, 2012. - 441 s.

ISBN:978-1-78052-038-4 (pbk.) LIBRIS-ID:12509201

Library search

Audiology: diagnosis

Roeser, Ross J.; Valente, Michael.; Hosford-Dunn, Holly.

2. ed.: New York: Thieme, cop. 2007 - xiii, 602 p., [10] p. of plates

ISBN:978-1-58890-542-0 (TPN) LIBRIS-ID:10535323

Library search

Moore, Brian C. J.

Cochlear hearing loss

London: Whurr, c1998 - viii, 312p

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

Library search

Gelfand, Stanley A.

Hearing: an introduction to psychological and physiological acoustics \

5. ed.: London: Informa Healthcare, c2010. - 1 online resource (vii, 311 p.)

ISBN:9781420088663 (electronic bk.) LIBRIS-ID:11940787

URL: Table of Contents / Abstracts

Library search

Moore, Brian C. J.

Cochlear hearing loss

London: Whurr, c1998 - viii, 312p

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

Course code: 1AU005
Library search