



**Karolinska
Institutet**

Course syllabus for

Hearing assessment 2, 7.5 credits

Hörselutredning 2, 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:

Autumn2011 , Autumn2012 , Autumn2013 , Autumn2014

Course code	1AU028
Course name	Hearing assessment 2
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Audiology
Level	G1 - First cycle 1
Grading scale	Pass, Fail
Department	Department of Clinical Science, Intervention and Technology
Decided by	Programnämnd 4
Decision date	2011-05-04
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 course builds further on the course Hearing assessment 1.

The general aims of the course are that the student should be very familiar with impedance and electrophysiological measurement and methods of measurement. Furthermore, the students should acquire knowledge and skills in deeper hearing assessment and hearing-assessment planning, interpretation of measurement result and practical knowledge through clinical placement. The course constitutes a basis for future courses in hearing rehabilitation.

The expected learning outcomes of the course

On completion of the course, the student should:

- independently be able to explain document, compare and interpret results of impedance and electrophysiological measurements and review these critically in relation to the tone audiogram

- explain and identify how different sources of errors can influence the measurement results
- independently be able to suggest a test battery for commonly occurring audiology diagnoses
- independently be able to give correct patient instructions for and carry out measurements of impedance and brain-stem audiometry and under supervision carry out otoacoustic emissions

Content

The course consists of two modules:

Hearing assessment, 5.5 hp The module introduces impedance and electrophysiological measurements and methods of measurement. Measurement accuracy is reviewed from concepts such as reliability and validity. The methods of measurement include measurements of impedance such as tympanometry and acoustic-reflex metrics and brain-stem audiometry and other electrophysiological measurements. The module also focuses on planning and selecting testing methods with a differential diagnosing purpose. Selection of adequate test battery from medical history, ear status and tone audiograms and interpretation of the measurement results are treated. Problem-solving and critical review are trained from patient cases and measurement results. The module also contains aspects such as communication and patient approach in the hearing health care. A strong emphasis is placed on the theoretical understanding of the different methods of measurement as well as the practical management of measuring equipment. **Clinical placement and laboratory assignments, 2 hp** The module focuses on practical training in impedance and electrophysiological measurement and the interpretation of measurement results and critical review. Otoscopy and inspection of the ear canal, and training in taking medical history and giving information and instructions to the patient, is included in preparation for all audiometries.

Teaching methods

Lectures, seminars, laboratory sessions and clinical placement.

Seminars, laboratory sessions and clinical placement are compulsory. In case of absence from a compulsory part, the student is responsible for contacting the course coordinator for 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

Hearing assessment, 5.5 credits

Written examination

Clinical placement and laboratory assignments, 2 credits

Clinical placement

Clinical tests

Active participation in laboratory sessions and seminars

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 additions to written assignment is counted as an 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.

Before the student begins their clinical placement, compulsory laboratory sessions and exercises should be passed. If the student fails on current parts and one clinical education opportunity is used up. For students who have failed the clinical education are offered yet another period of placement, i.e. total two clinical education periods. The examiner may, with immediate effect, interrupt a student's clinical placement if the student demonstrates such serious deficiencies in knowledge, skills or attitude that patient safety or patient confidence in healthcare is at risk. If a clinical placement is interrupted in this way the student is deemed to have failed that element and to have used up one clinical placement opportunity.

In such cases, an individual action plan should be set up stating which activities and tests are required before the student is qualified for a new clinical placement on the course.

A student who fails the clinical placement is offered yet another period of placement, i.e. a total of two clinical placement periods.

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

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

Literature and other teaching aids

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](#)

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](#)

Metodbok i praktisk hörselmätning

Almqvist, Bengt

[2. uppl.] : Bromma : C-A Tegnér, 2004 - 208 s.

ISBN:91-631-4909-5 LIBRIS-ID:9625710

[Library search](#)

Scientific papers and other relevant materials may be added.

Recommended literature

Cotrona, Umberto

Understanding impedance measurement

Copenhagen : Oticon, Cop. 1989 - 101 s.

LIBRIS-ID:8225881

Elberling, Claus; Osterhammel, Poul Aabo

Auditory electrophysiology in clinical practice

Copenhagen : Oticon, [1989?] - 101 s.

LIBRIS-ID:2485765

Additional literature

Hall, James W.q (James Wilbur)

Handbook of otoacoustic emissions

San Diego, Calif. : Singular Thomson Learning, 2000 - xi, 635 p.

ISBN:1-56593-873-9 LIBRIS-ID:8618676

[Library search](#)