

Course syllabus for

Research Methods and Statistics in Speech and Language Pathology and Audiology, 7.5 credits

Forskningsmetod och statistik i logopedi och audiologi, 7.5 hp

This course syllabus is valid from autumn 2020.

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

Autumn2017, Autumn2019, Autumn2020, Autumn2022

Course code 2QA271

Course name Research Methods and Statistics in Speech and Language Pathology

and Audiology

Credits 7.5 credits

Form of Education Higher Education, study regulation 2007
Main field of study Audiology, Speech and Language Pathology

Level Second cycle, has only first-cycle course/s as entry requirements

Grading scale Pass, Fail

Department Department of Clinical Science, Intervention and Technology

Decided by Utbildningsnämnden CLINTEC

Decision date 2016-12-08

Revised by Education committee CLINTEC

Last revision 2020-02-12 Course syllabus valid from Autumn 2020

Specific entry requirements

Degree of Master of Science in Speech and Language Pathology or Degree of Bachelor of Science in Audiology of at least 180 credits. Or Degree of Bachelor in audiology. In addition, proficiency in Swedish and English equivalent to Swedish B/Swedish 3 and English A/English 6.

Objectives

The student should be able to:

- Apply specific criteria to evaluate the validity of clinical tests and rating instruments in speech-language pathology and audiology
- Discuss and justify methods to evaluate reliability and validity of clinical scales and test batteries
- Suggest and carry out appropriate statistical analyses to evaluate treatment outcomes

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Content

The course covers themes as how the diagnostic accuracy of instruments in audiology and logopedics can be evaluated with clinical research methods and how reliability and validity are established for rating scales and test batteries. Also statistical analysis of treatment outcomes with various types of data is discussed.

Teaching methods

Lectures, seminars, demonstrations and practical exercises as well as written and oral presentation.

Examination

For passed course is required active participation in seminars and written and oral presentation of final report. Any absence is supplemented by implementation of equivalent activity at other occasion.

If there are special grounds, or a need for adaptation for a student with a disability, the examiner may decide to deviate from the syllabus's regulations on the examination form, the number of examination opportunities, the possibility of supplementation or exemptions from the compulsory section/s of the course etc. Content and learning outcomes as well as the level of expected skills, knowledge and abilities may not be changed, removed or reduced.

Transitional provisions

Examination will be provided during a period of two years after a possible closing of the course. Examination can be carried out according to an earlier literature list during a period of one year after the date of a renewal of the literature list.

Other directives

Course evaluation will be carried out in accordance with the guidelines established by the Board of Higher Education. The course evaluation will be web-based. Language of instruction: Swedish.

Literature and other teaching aids

Björk, Jonas

Praktisk statistik för medicin och hälsa

1. uppl. : Stockholm : Liber, 2011 - 327 s.

ISBN:91-47-10343-4 (korr.) LIBRIS-ID:12055810

Library search

Borg, Elisabet; Westerlund, Joakim

Statistik för beteendevetare. : Faktabok

3., [uppdaterade och omarb.] uppl. : Malmö : Liber, 2012 - 552 s.

ISBN:978-91-47-09737-1 (korr.) LIBRIS-ID:13434322

Library search

Dollaghan, Christine A.

The handbook for evidence-based practice in communication disorders

Baltimore: Paul H. Brookes Pub., c2007 - xi, 169 p.

ISBN:978-1-55766-870-7 (alk. paper) LIBRIS-ID:10591236

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URL: http://www.loc.gov/catdir/toc/ecip0716/2007017769.html

Library search

Howell, David C.

Statistical methods for psychology

8th ed., International ed.: [Belmont, Calif?]: Wadsworth Cengage Learning, c2013. - xix, 770 p.

ISBN:9781408088647 LIBRIS-ID:16412112

Library search

Irwin, David; Pannbacker, Mary H.; Lass, Norman J.

Clinical research methods in speech-language pathology and audiology

2nd ed.: San Diego: Plural Pub., c2014. - xix, 333 p.

ISBN:9781597565080 LIBRIS-ID:19887339

Library search

Tabachnick, Barbara G.; Fidell, Linda S.

Using multivariate statistics

6th ed., International ed.: Boston, [Mass.]: Pearson, c2013. - xxxi, 983 p.

ISBN:0205890814 LIBRIS-ID:13543104

Library search