



FDM3303 Multisensory Perception and Cross-modal Interaction 7.5 credits

Multisensorisk perception och tvärmodal interaktion

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for FDM3303 valid from Autumn 2018

Grading scale

Education cycle

Third cycle

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The course gives students basic theoretical and practical knowledge about the latest research findings in multisensory perception and cross-modal interaction.

The goal of the course is

- to gain relevant knowledge of the state-of-the-art in the research fields of multisensory perception and cross-modal interaction
- to take into account relevant properties and issues related to multisensory perception and cross-modal interaction
- to use the gained knowledge for identifying important issues related to perception in the design and evaluation of new technical solutions

Course contents

The course's main content will be decided by the students together with the course coordinator, depending on the interests of the students. It will be based on a selection of book chapter from the course literature listed below, and on a selection of state-of-the-art publications in the field.

Course literature

Selected chapters from the books:

- BE Stein, editor. *The New Handbook of Multisensory Processing*, MIT Press, 2012
- C Spence and J Driver, editors, *Crossmodal Space and Crossmodal Attention*, Oxford University Press, 2004

Selection of scientific publications.

Examination

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

The examination form will vary according to course content and student interest. Possible forms include for example a short research project, or a written overview of the literature in a specific area of multisensory perception and cross-modal interaction. Oral presentation is always part of the examination.

Other requirements for final grade

The student must give a 1-hour public seminar, and hand in a written report.

The seminar should:

- give an overview of current trends in multisensory perception and cross-modal interaction
- focus on methods and technology for the analysis and/or design of multisensory perception and cross-modal interaction
- discuss advantages of and examples when leveraging multisensory perception and cross-modal interaction

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.