

Human Factors

Single subject and programme course

6 credits

Human Factors

769A09

Valid from: 2018 Autumn semester

Determined by

Course and Programme Syllabus Board
at the Faculty of Arts and Sciences

Date determined

2018-04-23

Main field of study

Cognitive Science

Course level

Second cycle

Advancement level

A1N

Course offered for

- Master Programme in Cognitive Science

Entry requirements

- Bachelor's Degree in Cognitive Science equivalent to a Swedish Kandidatexamen
or
Bachelor's Degree in Computer Science equivalent to a Swedish Kandidatexamen
and
30 ECTS credits in one of the following subject areas
 - Psychology
 - Linguistics
 - Philosophy
 - Neuroscience
 - Anthropologyor
Bachelor's Degree in Psychology of Neuroscience equivalent to a Swedish Kandidatexamen
30 ECTS credits passed in Computer Science
- English and Swedish corresponding to the level of English and Swedish in Swedish upper secondary education (Engelska 6 and Svenska 3)

Intended learning outcomes

After completion of the course, the student should at an advanced level be able to:

- account for theories and models within the disciplines of Human Factors and Resilience Engineering
- apply methods to analyze human factors in complex systems
- identify, delimit, and analyze a man-machine system from a Human Factors or Resilience Engineering perspective

Course content

The following topics are studied in the course:

- Central theories and models within the Human Factors and Resilience Engineering disciplines that can be used to describe, understand, and analyze human factors in complex systems
- Central concepts related to those disciplines
- Methods to analyze and describe complex systems and the role of humans within such systems
- Current research within the Human Factors discipline.

Teaching and working methods

Teaching methods are lectures, practical exercises, and seminars. The student is expected to read and study independently, either individually or in groups.

Examination

The course is examined through active participation during seminars, completion of practical exercises, and an individual project that includes both written and oral components.

Detailed information can be found in the study guidelines.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it. If the coordinator has instead recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

Grades

Three-grade scale, U, G, VG

Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is carried out in such a way that both men's and women's experience and knowledge is made visible and developed.

Department

Institutionen för datavetenskap