



Faculty of Health, Science and Technology  
Computer Science

# Syllabus

## Perspectives in Computer Science

**Course Code:**

DVAD07

**Course Title:**

Perspectives in Computer Science

*Perspektiv på datavetenskap*

**Credits:**

7.5

**Degree Level:**

Master's level

**Progressive Specialisation:**

Second cycle, has only first-cycle course/s as entry requirements  
(A1N)

**Major Field of Study:**

DVA (Computer Science)

### Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2016-02-19, and is valid from the Autumn semester 2016 at Karlstad University.

### Prerequisites

Computer Science 60 ECTS cr (completed courses)

Upper Secondary English 6 or B, or equivalent

### Learning Outcomes

Upon completion of the course, students should be able to:

- demonstrate broad knowledge of computer technology as well as considerably specialized knowledge of certain parts of the field,
- make assessment with consideration given to relevant scientific, societal and ethical aspects, and
- give a holistic perspective on the human-computer interaction and how this can be a part of sustainable development.

### Content

For each course date, a theme (areas of society) is chosen, which is also the frame of the students' literature studies. Each student further delimits the theme (in consultation with the teacher) and defines a problem area to study. There are a number of guest lectures in the chosen themes to inspire the students.

Students acquire further knowledge of computer technology in their chosen problem area through literature study. They are expected to reflect on the technology in the problem area and make assessments with consideration given to relevant scientific, societal and ethical aspects and reflect on how technology affects and interacts with users and discuss the sustainability aspect involved. The results are presented orally and in a written report and discussed in seminars. Students are supported

through supervision sessions and a lecture on oral and written presentation.

### **Reading List**

See separate document.

### **Examination**

Assessment is based on hand-in assignments and presentations.

### **Grades**

One of the grades 5 (Pass with Distinction), 4 (Pass with Some Distinction), 3 (Pass), or U (Fail) is awarded in the examination of the course.

### **Quality Assurance**

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

### **Course Certificate**

A course certificate will be provided upon request.

### **Additional information**

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.