



## Course syllabus

Faculty Board of Science and Engineering  
School of Computer Science, Physics and Mathematics

2DV407 RIA-utveckling med JavaScript, 7,5 högskolepoäng  
RIA Development with JavaScript, 7.5 credits

### **Main field of study**

Computer Science

### **Subject Group**

Informatics/Computer and Systems Sciences

### **Level of classification**

First Level

### **Progression**

G2F

### **Date of Ratification**

Approved by the Board of the School of Computer Science, Physics and Mathematics  
2009-11-19

Revised 2010-08-20. Revision made for English translation of the syllabus, prerequisites and course evaluation.

The course syllabus is valid from spring semester 2011

### **Prerequisites**

Introduction to Web Technologies (1IK415), 7.5 credits, Web Technology I (1DV403), 7.5 credits, Starting Out with C# (1DV402), 7.5 credits, Object Oriented Analysis and Design using UML (1DV407), 7.5 credits or equivalent.

## Expected learning outcomes

After completing the course, students should:

- be able to organize and deploy larger JavaScript applications
- possess an overview of the JavaScript community at large and has gained a general knowledge of information sources, libraries and applications
- have an efficient, personalized development environment
- be accustomed to familiarize themselves with API, third party libraries and exploit this in their own Applications.

## Content

During the course, students gradually develop a JavaScript application, where the focus lies in the process. In parallel to the programming a report is written, in which students reflect on the development of different parts. Students also do a special assignment in an optional field of study.

The course contains:

- The structuring of JavaScript applications
- Help Libraries and frameworks
- Dynamic graphics and interface design
- Optimization of serving, packing and execution
- Test Driven Development.

## Type of Instruction

The course is offered only as a distance course.

Tutoring is given continuously through the course forum or other channels such as Skype and Adobe Connect Pro.

## Examination

The course is assessed with the grades U,3,4 or 5.

For the grade 3 the expected learning outcomes have to be achieved.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Grades are given for completion of the course and is based on the report, the development process, the application result and the presentation of the special assignment.

Re-examinations are offered within six weeks under the regular semester periods. The numbers of examinations are limited to five times.

## Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

## Other

To study this course it is necessary to have access to a Internet-connected computer equipped with a headset and webcam.

## Required Reading and Additional Study Material

### **Recommended Literature**

Souders, Steve m fl (2009) Even Faster Websites, ISBN 0596522304, app. 250 pages.

Crockford, Douglas (2008) JavaScript: The Good Parts, ISBN 0596517742, app. 150 pages.

Odell, Den (2009) Pro JavaScript RIA Techniques, ISBN 1430219343, app. 350 pages.

Web-based materials are provided on the course website.

The Required Reading and Additional Study Material are subject to changes.