



Faculty of Arts and Social Sciences  
Information Systems

## Syllabus

### JavaScript for Webdevelopment

<b>Course Code:</b>	ISGB15
<b>Course Title:</b>	JavaScript for Webdevelopment <i>JavaScript för webbutveckling</i>
<b>Credits:</b>	5
<b>Degree Level:</b>	Undergraduate level
<b>Progressive Specialisation:</b>	First cycle, has less than 60 credits in first-cycle course/s as entry requirements (G1F)

**Major Field of Study:**  
IKA (Information Systems)

#### Course Approval

The syllabus was approved by the Faculty of Arts and Social Sciences 2017-05-24, and is valid from the Spring semester 2018 at Karlstad University.

#### Prerequisites

Attended courses ISGA04 Basic Programming 7.5 ECTS cr and ISGA11 HTML and CSS for Webdevelopment 5 ECTS cr or equivalent.

#### Learning Outcomes

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

- produce programs written in JavaScript,
- use built-in methods and properties of classes and objects in JavaScript
- create their own functions (methods) and handle exceptions,
- use event handling to call functions and methods,
- validate indata in HTML forms, and
- use DOM (Document Object Model) to change the structure of HTML documents to change CSS properties.

#### Content

The course treats how to use JavaScript to create interactive and dynamic web pages interpretable in the web reader. In JavaScript students use methods and properties of classes and objects to create functions and use event handling to call functions and methods. In addition, the course deals with HTML-form validation and how to use DOM to change HTML and CSS.

#### Reading List

See separate document.

**Examination**

Assessment is based on hand-in group assignments, and a written exam.

**Grades**

One of the grades Distinction (VG), Pass (G), or Fail (U) 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.