



Faculty of Arts and Social Sciences
Information Systems

Syllabus

JavaScript for Webdevelopment

Course Code:	ISGB15
Course Title:	JavaScript for Webdevelopment <i>JavaScript för webbutveckling</i>
Credits:	5
Degree Level:	Undergraduate level
Progressive Specialisation:	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 2024-08-16, and is valid from the Spring semester 2025 at Karlstad University.

Prerequisites

Registered for ISGA44 Introduction to programming, 7.5 ECTS credits, and ISGA11 HTML and CSS for web development, 5 ECTS credits, or equivalent

Learning Outcomes

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

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

Content

The course treats how to use JavaScript to create interactive and dynamic web pages that can be interpreted in the web reader. In JavaScript students use methods and properties of classes and objects, create functions and use event handling to call functions and methods. In addition, the course deals with HTML (Hypertext Markup Language) form validation and how to use DOM (Document Object Model) to change HTML and CSS (Cascading Style Sheets).

Reading List

See separate document.

Examination

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

If students have a decision from Karlstad University entitling them to Targeted Study Support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

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.