



COURSE SYLLABUS

Web and User Interface Design, 9 credits

Webb- och gränssnittsdesign, 9 högskolepoäng

Course Code: TWBG16	Education Cycle: First-cycle level
Confirmed by: Dean Mar 1, 2016	Disciplinary domain: Technology (95%) and social sciences (5%)
Valid From: Aug 1, 2016	Subject group: DT1
Version: 1	Specialised in: G1N
Reg number: JTH 2016/1195-313	Main field of study: Informatics

Intended Learning Outcomes (ILO)

After a successful course, the student shall

Knowledge and understanding

- show familiarity with the communication between web clients and web servers
- demonstrate comprehension of the different aspects of web based system architecture

Skills and abilities

- demonstrate the ability to apply HTML5 standards in the construction of documents (DOM)
- demonstrate the ability to apply CSS3 in the design of a web site
- demonstrate the ability to apply precompiled CSS (SASS/LESS)
- demonstrate the ability to develop a finished web solution with the aid of CSS3 and HTML5 following a given specifications and a focus on sustainability
- demonstrate the ability to develop a web site according to principles and best practise of responsive web design

Judgement and approach

- demonstrate the ability to suggest a user interface that is user friendly and useable, and to motivate why
- demonstrate the ability to assess a responsive web design with the benefits and disadvantages of responsive design

Contents

The course comprises contemporary and basic techniques to create modern web applications for desktop as well as mobile devices.

The course includes the following parts:

- HTML5
- CSS (Cascading Style Sheets) including animation and transitions
- Precompiled CSS (SASS/LESS)
- Dynamic clients for improved web site functions
- Project methods for web projects and version control

- Responsive design theory and implementation methods
- Standards and templates for construction of forms and input

Type of instruction

Lectures, assignments and project work

The teaching is conducted in English.

Prerequisites

General entry requirements and Mathematics 2a or 2b or 2c and English 6. Or: Mathematics B and English B (or the equivalent).

Examination and grades

The course is graded 5,4,3 or Fail.

The final grade for the course is based upon a balanced set of assessments

The final grade will only be issued after satisfactory completion of all assessments

Registration of examination:

Name of the Test	Value	Grading
Assignments	6 credits	5/4/3/U
Written examination	3 credits	5/4/3/U

Course literature

The literature list for the course will be provided one month before the course starts.

Sasha Vodnik, HTML5 and CSS3 (2011),

ISBN10: 1111527989, ISBN13: 9781111527983

Jonathan Fielding, Beginning Responsive Web Design With Html5 and Css3 (2015)

ISBN: 9781430266945

When course starts you will be informed where to find similar information online and referring to more sources