



# Interested in studying abroad?

The Web Content Manager and Design Program offers two exchange packages in Autumn Term 2019 (sept-jan):

**Backend web development** and **Frontend web development**

## Backend web development (30 ECTS)

The **design, development,** and management of databases constitute essential processes in the implementation of the information architecture of websites and other digital applications.

The courses in the back end web development profile aim to provide both the theoretical knowledge and the practical skills needed for creating and maintaining databases, as well as making the information contained in databases available through APIs (Application Programming Interfaces) to be implemented in web applications and services according to the principles of the REST (Representational State Transfer) architecture.

**The first course,** Modeling (7.5 credits), provides an orientation to the modeling processes that take place in connection with the design, implementation, and testing of a web application, for example, by establishing and illustrating the requirements that should be possible to define concerning the interaction between the web application and its users.

**The following course,** Database Design (7.5 credits), deals with different approaches to creating and implementing conceptual and logical models for a specific web application and provides an orientation about the relational database model as well as different NoSQL architectures. The course also gives an introduction to the programming language SQL.

**The third course,** Database Management (7.5 credits), builds on the principles and approaches presented in the course Database Design, but with a particular focus on the implementation and management of databases in a specific database management system, with the goal to create efficient and scalable applications.

**The term's closing course,** Application Interfaces (7.5 credits), deals with the design and implementation of web applications (such as cloud-based information services) that allow for information in databases to be read or modified through APIs implemented according to the principles of the REST architecture.

Even though only the last course have formal prerequisites with respect to knowledge and skills, the package as a whole requires an understanding of web technologies in general and knowledge and skills in html encoding, css design and javascript programming in particular.

**Web Content Manager and Designer**



For more information, please contact:

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## Frontend web development (30 ECTS)

The **design of interfaces** for interaction between humans and web applications and services is of crucial importance for their usability and a well perceived user experience. The set of frontend development courses is developed with the intentions to function as a comprehensive introduction to the areas of interaction design (IxD), user experience (UX) and interface development within the domain of human-computer interaction (HCI). They will provide you with the opportunity to acquaint yourself with theories and methods for the design of engaging and functional web applications.

The **first course**, Modeling (7.5 credits), provides an orientation to the modeling processes that take place in connection with the design, implementation, and testing of a web application, for example, by establishing and illustrating the requirements that should be possible to define concerning the interaction between the web application and its users.

**Interface Development** (7.5 credits), the second course, is oriented towards the actual prototyping and development of interactive solutions for particular user personas and contexts, building upon the knowledge and skills developed in the previous course.

Finally, in the **third course**, Ux Design (15 credits), students proceed from the outcome of the previous course to test and iteratively develop an application for improved user experience by taking people and their needs first. The course provides a survey of theories, different quantitative and qualitative methods, and technologies used in Ux design.

Even though the first course have no formal prerequisites with respect to knowledge and skills, the following two courses requires an understanding of web technologies in general and knowledge and skills in html encoding, css design and javascript programming in particular.

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