

# Course structure and modules Flexibility in creating your profile

The concept of "applied" is at the heart of our programme, and we therefore provide students with the technical, methodological, analytical and communication skills and knowledge they need when working on real-life projects.

## Coursework

The Master's degree in Applied Information and Data Science requires students to earn 120 credits under the European Credit Transfer System (ECTS). At Lucerne University of Applied Sciences and Arts, a credit generally equals 30 hours of coursework, which includes attending classes, studying individually, writing term papers and taking exams.

## Language of instruction

Teaching language is English, there are only a few German-language modules. However, students are allowed to take the module exam in either German or English, regardless of the module's language of instruction.

## Teaching format

Starting in the autumn semester of 2021, classes will alternate between on-site and online teaching. On-site classes will be held in fixed semester weeks and allow students and lecturers to exchange. In the remaining semester weeks, all teaching will take place online.

## Preparatory modules

The first semester includes introductory courses on the important basic principles of applied data science, such as computer science, Python, statistics and experimental design. Students without a documented background in these areas must complete the respective preparatory modules, which count as part of the coursework.

## Required modules

In principle, students must complete the required modules for their field; however, exemptions may be granted for those who can document having completed such coursework previously.

## Core elective modules

Students must choose a certain number of core electives from a prescribed set of topics. These modules then enable them to create an individual profile.



## Master's Thesis

By completing the Master's Thesis, students demonstrate their ability to manage a real-life data project by doing thorough research and meeting high professional standards. The programme encourages and supports students in working closely with industry partners, and the Master's Thesis (incl. preliminary study) therefore is an integral part of the programme.

Master's thesis projects to date

## Earn up to 120 ECTS credits with flexible modules

The Master's programme consists of required modules, including the Master's Thesis (69 ECTS credits) and core elective modules in three areas (51 ECTS credits). The core elective modules enable students to develop their profile more closely in line with a specific business, technology or analytical area.

## Course Catalogues

- Course catalogue valid for students who started in spring 2020 up to and including spring 2021
- Course catalogue valid for students starting in autumn 2021 up to and including spring 2022
- Course catalogue valid for students starting in autumn 2022

## Module Descriptions

[Link to the descriptions of all modules.](#)



--> Info-Events >

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## Contact

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