

# Course Offer Academic Year 2024/2025

## Schools of Technology / Computer Science / Architecture, Civil Engineering, Landscape Architecture, Spatial Planning

This course list offers an overview of English taught courses. For German taught courses please use the links below each specialization. Course descriptions may be accessed by clicking the course code. The course offer is provisional and subject to change. Consequently, courses are subject to availability.

Exchange students can choose courses from different degree programs provided they are offered on the same campus (Rapperswil, Buchs or St. Gallen).

### School of Computer Science

Bachelor of Science in Computer Science (Campus Rapperswil & St. Gallen)			
Course Code	Course Name	ECTS	Semester
<a href="#">AIFo</a>	AI Foundations	4	Fall
<a href="#">GenAI</a>	Generative AI	4	Fall
<a href="#">NISec</a>	Network and IoT Security	4	Fall
<a href="#">PFSec</a>	Platform Security	4	Fall
<a href="#">SEP1</a>	SE Practices 1	4	Fall
<a href="#">AIAp</a>	AI Applications	4	Spring
<a href="#">CldOp</a>	Cloud Operations	4	Spring
<a href="#">CN2</a>	Computer Networks 2	6	Spring
<a href="#">FP</a>	Functional Programming	4	Spring
<a href="#">IBN</a>	Intent-Based Networking	4	Spring
<a href="#">NetAut</a>	Network Automation	2	Spring
<a href="#">ParProg</a>	Parallel Programming	4	Spring

Courses in German: [Bachelor Informatik | OST](#)

### School of Technology

Bachelor of Science in Electrical and Computer Engineering (Campus Rapperswil)			
Course Code	Course Name	ECTS	Semester
BAE	Bachelor Thesis	12	Fall
<a href="#">DigSig2Engl</a>	Digital Signal Processing 2	4	Fall
<a href="#">IPCV1</a>	Image Processing and Computer Vision 1	4	Fall
<a href="#">ML</a>	Statistical Machine Learning	4	Fall
<a href="#">WsComm1Engl</a>	Wireless Communications 1	4	Fall
SAE	Student Project	8	Fall
BAE	Bachelor Thesis	12	Spring
<a href="#">DL</a>	Deep Learning	4	Spring

### Bachelor of Science in Electrical and Computer Engineering (Campus Rapperswil)

<u>DigSig1Engl</u>	Digital Signal Processing 1	4	Spring
<u>IPCV2</u>	Image Processing and Computer Vision 2	4	Spring
SAE	Student Project	8	Spring
<u>WsComm2Engl</u>	Wireless Communications 2	4	Spring

Courses in German: [Bachelorstudium Elektrotechnik | OST](#)

### Bachelor of Science in Industrial Engineering (Campus Rapperswil)

Course Code	Course Name	ECTS	Semester
<u>Logist</u>	Logistics and Supply Chain Management	4	Fall
<u>SFFACTORY</u>	SF-Smart Factory	4	Fall
<u>SPPRODUCTS</u>	SP-Smart Products	4	Fall
<u>VNADDMAN</u>	VN-Additive Manufacturing	4	Fall
<u>ISWEE</u>	International Study Week	4	Spring
<u>SFROBOTICS</u>	SF-Robotics	4	Spring
<u>SPDATASC</u>	SP-Data Science	4	Spring
<u>VNVALCHAIN</u>	VN-Value Chain Networks	4	Spring

Courses in German: [Bachelor in Wirtschaftsingenieurwesen | OST](#)

### Bachelor of Science in Industrial Engineering (Campus St. Gallen)

Course Name	ECTS	Semester
Industrial Product Development Project	20	Spring
Swiss Business Experience	4	Spring
International Study Week	4	Spring

For course description please contact [io-eng@ost.ch](mailto:io-eng@ost.ch)

Courses in German: [Bachelor in Wirtschaftsingenieurwesen | OST](#)

### Bachelor of Science in Mechanical Engineering and Innovation (Campus Rapperswil)

Course Code	Course Name	ECTS	Semester
BAM	Bachelor's Thesis	12	Fall
<u>ML</u>	Statistical Machine Learning	4	Fall
SAM	Student Project	8	Fall
BAM	Bachelor's Thesis	12	Spring
<u>DL</u>	Deep Learning	4	Spring
<u>SFact</u>	Smart Factory	4	Spring
SAM	Student Project	8	Spring

Courses in German: [Bachelor Maschinentchnik|Innovation | OST](#)

### Bachelor of Science in Systems Engineering (Campus Buchs)

Course Name	ECTS	Semester
Electromagnetic Compatibility	2	Fall
Global Design Project (in cooperation with Purdue and ESPOL, Ecuador)	2	Fall
Term project	8	Fall
Term project	12	Fall
Term project	18	Fall
Term project	24	Fall
Term Project	30	Fall
Thermal Energy Systems I	4	Fall
Web Programming	2	Fall
EuR II / Microcontroller Programming	4	Spring
Internet of Things	2	Spring
Thermal Energy of Systems II	2	Spring
Term project	8	Spring
Term project	12	Spring
Term project	18	Spring
Term Project	24	Spring
Term Project	30	Spring

For course descriptions please contact [jo-eng@ost.ch](mailto:jo-eng@ost.ch)

Courses in German: [Bachelor Systemtechnik | OST](#)

### Bachelor of Science in Renewable Energies and Environmental Engineering (Campus Rapperswil)

Course Code	Course Name	ECTS	Semester
<u>GebTBau</u>	Building system technologies, Building physics	4	Fall
<u>EET</u>	Electrical Energytechnology	4	Fall
<u>MATLAB</u>	Matlab	2	Fall
<u>CFD_FEM</u>	Process and Product Simulations	4	Fall
SAEU	Student Project	8	Fall
<u>PhoWiWaTec</u>	Photovoltaics, wind energy, hydrogen technology	4	Spring
<u>ThSoIT2</u>	Solar Heating and Cooling 2	2	Spring
BAEU	Bachelor's Thesis	12	Spring
SAEU	Student Project	8	Spring

Students who wish to write their Bachelor's Thesis at OST must source a supervisor on their own.

Courses in German: [Bachelor Erneuerbare Energien und Umwelttechnik | OST](#)

### Master of Science in Engineering (Campus Rapperswil, Zurich)

The eight universities of Applied Sciences in Switzerland are offering the practically oriented MSE master's programme. In this course of study, you can benefit from a diverse range of courses structured in 11 profiles, which offer a great scope of personal choice and have a network of specialists and students from across Switzerland.

All Master of Science in Engineering classes are offered in English (except the Spatial Development and Landscape Architecture (ReLa), which is offered in German). The general modules are offered in Zurich, whereas more specific modules are offered in Rapperswil. Students will participate in both modules.

[Study programme - MSEngineering](#)

[Theory Modules - MSEngineering](#)

[Moodle MSE \(msengineering.ch\)](#) Please refer to "timetable" to see which modules are offered in spring or fall.

Please contact us for more information about [our specializations](#).

All class descriptions offered in Rapperswil: [Alle Module \(ost.ch\)](#)

## School of Architecture, Civil Engineering, Landscape Architecture, Spatial Planning

### Bachelor of Arts in Architecture (Campus St. Gallen)

Courses in German: [Bachelor Architektur | OST](#)

### Bachelor of Science in Civil Engineering (Campus Rapperswil)

Courses in German: [Bachelor Bauingenieurwesen | OST](#)

### Bachelor of Science in Landscape Architecture (Campus Rapperswil)

Courses in German: [Bachelor Landschaftsarchitektur | OST](#)

### Bachelor of Science in Spatial Planning (Campus Rapperswil)

Course Code	Course Name	ECTS	Semester
<a href="#">SC</a>	Smart City	2	Fall
<a href="#">IVP</a>	Term Project (Individual semester profile project)	6	Fall

Courses in German: [Bachelor Stadt-, Verkehrs- und Raumplanung | OST](#)

## General and Language Courses

General and language courses (Campus Rapperswil)			
Course Code	Course Name	ECTS	Semester
<u>ArtInt</u>	Artificial Intelligence	4	Fall
<u>Gfb</u>	German for beginners	2-4	Fall
<u>ICgw</u>	Intercultural competence for a globalized world	4	Fall
<u>DBiS</u>	Understanding Switzerland	4	Fall
<u>EnglHTw</u>	English: How things work	4	Fall
<u>EnglScience</u>	English: The World of Science	4	Fall
<u>FranzKomm2</u>	French communication 2	4	Fall
<u>Ital2</u>	Italian 2	4	Fall
<u>Jap1</u>	Japanese 1	2	Fall
<u>Chin1</u>	Chinese 1	4	Fall
<u>Span2</u>	Spanish 2	4	Fall
<u>Gfb</u>	German for beginners	2-4	Spring
<u>Chinese2</u>	Chinese 2	4	Spring
<u>SelTec</u>	English: Selling Technology	4	Spring
<u>TecBEC</u>	English: Where Tech Meets BEC	4	Spring
<u>FranzKomm</u>	French communication	4	Spring
<u>Ital1</u>	Italian 1	4	Spring
<u>Jap2</u>	Japanese 2	2	Spring
<u>Span1</u>	Spanish 1	4	Spring

For French communication class, level B1 is necessary.

For Chinese, Japanese and Spanish, basic German is mandatory, as grammar is explained in German. Spanish course without German knowledge is open to students who speak another Romance language.

\*The course descriptions for new courses are available at a later date.