

English Module List

Spring Semester 2025



The ZHAW - School of Engineering offers numerous English taught modules for Incoming Exchange Students - some remarks for clarification:

- **For Bachelor Exchange students**, on this document the modules for the spring semester are listed
- This list is subject to changes.
- The exchange students may choose modules out of all programs.
- Students who have German language skills level B2, may attend all modules.
<https://www.zhaw.ch/en/engineering/study/bachelors-degree-programmes/>
- **For Master Exchange students**, the program is entirely taught in English. ZHAW School of Engineering offers the following eleven master profiles: Aviation, Business Engineering, Civil Engineering, Computer Science, Data Science, Electrical Engineering, Energy and Environment, Mechanical Engineering, Mechatronics and Automation, Medical Engineering, Photonics.
- Detailed information is available under
<https://www.zhaw.ch/en/engineering/study/masters-degree-programmes/>

If you need any further information, please feel free to contact:
ZHAW School of Engineering Exchange exchange.engineering@zhaw.ch

Aviation

Module Name	Module Code	ECTS Credits	Term	Semester
Business Administration	t.BA.AV.BADM-EN.19HS	4	Spring	2 nd semester
Principles of Flight	t.BA.AV.POF-EN.16HS	4	Spring	2 nd semester
Aircraft Systems - Electrotechnics and Electrical Systems	t.BA.AV.ACSYS-EE-EN.19HS	4	Spring	4 th semester
Aircraft Systems - Propulsion Systems and Performance	t.BA.AV.ACSYS-PP-EN.19HS	4	Spring	4 th semester
Aviation Systems Engineering	t.BA.AV.SYSENG-EN.19HS	4	Spring	4 th semester
Aircraft Systems - Flight Propulsion	t.BA.AVV.ACSYS-FP-EN.22HS	4	Spring	6 th semester
Aviation Management	t.BA.AVV.AVMGMT-EN.22HS	4	Spring	6 th semester
Flight Mechanics and Simulation	t.BA.AVV.FMSI-EN.22HS	4	Spring	6 th semester
Introduction to Rotary Wing Aircraft	t.BA.WV.HELII-EN.19HS	4	Spring	6 th semester
Unmanned Aviation	t.BA.WV.UA-EN.19HS	4	Spring	6 th semester
Project Thesis: Aviation	t.BA.AV.PA-EN.19HS	6	Spring	6 th semester

Context modules

Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	Spring
Blockweek International Management – Asia (CW27/28 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	Spring
German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.21HS	2	*Spring

*availability depending on number of students

Computer Science

Module Name	Module Code	ECTS Credits	Term	Semester
Artificial Intelligence 2	t.BA.WV.AI2-EN.19HS	4	Spring	6 th semester
Cloud Computing 2	t.BA.WV.CCP2-EN.19HS	4	Spring	6 th semester
Communication Networks and Services 2	t.BA.WV.CNS2-EN.19HS	4	Spring	6 th semester
Internet of Things 2	t.BA.WV.IOT2-EN.19HS	4	Spring	6 th semester
Multicore und Parallel Computing	t.BA.WV.MPC-EN.19HS	4	Spring	6 th semester
Robotics Application Programming	t.BA.WV.RAP-EN.20HS	4	Spring	6 th semester
Software and System Security 2	t.BA.WV.SWS2-EN.19HS	4	Spring	6 th semester
Project Thesis: Computer Science	t.BA.IT.PA-EN.19HS	6	Spring	6 th semester
Computer Vision with Deep Learning	t.BA.WV.CVDL-EN.23HS	4	Spring	6 th Semester
Machine Learning Operations	t.BA.WV.MLOPS-EN.23HS	4	Spring	6 th semester

Context modules

Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	Spring
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	Spring
German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.21HS	2	*Spring

*availability depending on number of students

Data Science

Module Name	Module Code	ECTS Credits	Term	Semester
Artificial Intelligence 2	t.BA.WV.AI2-EN.19HS	4	Spring	6 th semester
Digital Entrepreneurship	t.BA.DS.DENT-EN.20HS	4	Spring	4 th semester
Project Thesis: Data Science	t.BA.DS.PA-EN.20HS	6	Spring	6 th semester
Machine Learning Operations	t.BA.WV.MLOPS-EN.23HS	4	Spring	6 th semester
Computer Vision with Deep Learning	t.BA.WV.CVDL-EN.23HS	4	Spring	6 th semester
Data Science in Health	t.BA.WV.DSHEAL-EN.23HS	4	Spring	6 th semester
Data Science in Industrial IoT	t.BA.WV.DSIOT-EN.23HS	4	Spring	6 th semester

Context modules

Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	Spring
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	Spring
Blockweek International Management - Asia (CW 27/28 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	Spring
German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.21HS	2	*Spring

*availability depending on number of students

Electrical Engineering

Module Name	Module Code	ECTS Credits	Term	Semester
Electronics Project 2	t.BA.ET.PM4-EN.19HS	4	Spring	4 th semester
Automation 2	t.BA.WV.AUT2-EN.19HS	4	Spring	6 th semester
Communication Networks and Services 2	t.BA.WV.CNS2-EN.19HS	4	Spring	6 th semester
Internet of Things 2	t.BA.WV.IOT2-EN.19HS	4	Spring	6 th semester
Multicore und Parallel Computing	t.BA.WV.MPC-EN.19HS	4	Spring	6 th semester
Sensors	t.BA.WV.SEN-EN.23HS	4	Spring	6 th semester
Project Thesis: Electrical Engineering	t.BA.ET.PA-EN.19HS	6	Spring	6 th semester

Context modules

Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	Spring
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	Spring
Blockweek International Management - Asia (CW 27/28 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	Spring
German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.21HS	2	*Spring

*availability depending on number of students

Energy and Environmental Engineering

Module Name	Module Code	ECTS Credits	Term	Semester
Project Thesis: Energy and Environmental Engineering	t.BA.EU.PA-EN.19HS	6	Spring	6 th semester

Options from other Engineering Programs

Blockweek International Management - Asia (CW 27/28 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	Spring	5 th semester
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Context modules

Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	Spring
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	Spring
German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.21HS	2	*Spring

*availability depending on number of students

Engineering and Management

Module Name	Module Code	ECTS Credits	Term	Semester
Statistical Data Mining	t.BA.WI.STDM-EN.19HS	4	Spring	4 th semester
Statistical Modelling	t.BA.XX.STMO-EN.20HS	4	Spring	4 th semester
Project Thesis: Engineering and Management	t.BA.WI.PA-EN.19HS	6	Spring	6 th semester

Context modules				
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	Spring	
Blockweek International Management - Asia (CW 27/28 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	Spring	
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	Spring	
German for Beginners	t.BA.XX.GFB.17HS	2	*Spring	
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.21HS	2	*Spring	

*availability depending on number of student

Mechanical Engineering

Module Name	Module Code	ECTS Credits	Term	Semester
Finite Element Method	t.BA.MT.FEM-EN.19HS	4	Spring	4 th semester
Measurement and Control Systems 2	t.BA.MT.MRT2-EN.19HS	4	Spring	4 th semester
Project Module 4	t.BA.MT.PM4-EN.19HS	4	Spring	4 th semester
Materials Engineering 2	t.BA.MT.WT2-EN.19HS	4	Spring	4 th semester
Introduction to Rotary Wing Aircraft	t.BA.WV.HELII-EN.19HS	4	Spring	6 th semester
Systems and Automation Technology 2	t.BA.MTV.SYAT2-EN.22HS	4	*Spring	6 th semester
Introduction to Rotary Wing Aircraft	t.BA.WV.HELII-EN.19HS	4	Spring	6 th semester
Sensors	t.BA.WV.SEN-EN.23HS	4	Spring	6 th semester
Project Thesis: Mechanical Engineering	t.BA.MT.PA-EN.19HS	6	Spring	6 th semester

Context modules

Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	Spring
Blockweek International Management - Asia (CW 27/28 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	Spring
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	Spring
German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.21HS	2	*Spring

*availability depending on number of students

Medical Informatics

Module Name	Module Code	ECTS Credits	Term	Semester

For this spring semester there are no modules available.

Mobility Science

Module Name	Module Code	ECTS Credits	Term	Semester
Project Thesis: Transport systems	t.BA.VS.PA-EN.19HS	6	Spring	6 th semester

Context modules				
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	Spring	
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	Spring	
Blockweek International Management - Asia (CW 27/28 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	Spring	
German for Beginners	t.BA.XX.GFB.17HS	2	*Spring	
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.21HS	2	*Spring	

*availability depending on number of students

Systems Engineering

Module Name	Module Code	ECTS Credits	Term	Semester
Product Development for Systems Engineering 4	t.BA.ST.PM4-EN.19HS	4	Spring	4 th semester
Automation 2	t.BA.WV.AUT2-EN.19HS	4	Spring	6 th semester
Thermal Devices in Medicine	t.BA.WV.MEDT-EN.20HS	4	Spring	6 th Semester
Sensors	t.BA.WV.SEN-EN.23HS	4	Spring	6 th Semester
Introduction to Rotary Wing Aircraft	t.BA.WV.HELII-EN.19HS	4	Spring	6 th semester
Project Thesis: Systems Engineering	t.BA.ST.PA-EN.19HS	6	Spring	6 th semester

Context modules			
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	Spring
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	Spring
German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.21HS	2	*Spring

*availability depending on number of students