



Zurich University of Applied Sciences School of Engineering



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

- **For Bachelor Exchange students**, in this document the modules open for the spring semester are listed.
- This list is subject to changes.
- The exchange students can choose modules out of all programs.
- Students who have German language skills level B2, can of course attend all modules.
<https://www.zhaw.ch/de/engineering/studium/bachelorstudium/>
- **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-programme/profiles/>

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



Aviation

Modules in English for Bachelor Exchange Students Spring Semester Study year 2021-2022

Modules / Courses	Module Code	ECTS Credits	Term	Level
Business Administration	t.BA.AV.BADM-EN.19HS	4	Spring	2. semester
Principles of Flight	t.BA.AV.POF-EN.16HS	4	Spring	2. semester
Aircraft Systems - Electrotechnics and Electrical Systems	t.BA.AV.ACSYS-EE-EN.19HS	4	Spring	4. semester
Aircraft Systems - Propulsion Systems and Performance	t.BA.AV.ACSYS-PP-EN.19HS	4	Spring	4. semester
Aviation Systems Engineering	t.BA.AV.SYSENG-EN.19HS	4	Spring	4. semester
Aircraft Systems - Flight Propulsion	t.BA.WV.ACSYS-FP-EN.19HS	4	Spring	6. semester
Aviation Management	t.BA.WV.AVMGMT-EN.19HS	4	Spring	6. semester
Flight Mechanics and Simulation	t.BA.WV.FMSI-EN.19HS	4	Spring	6. semester
Unmanned Aviation	t.BA.WV.UA-EN.19HS	4	Spring	6. semester
Introduction to Rotary Wing Aircraft	t.BA.WV.HELI-EN.19HS	4	Spring	6. semester
Project Thesis: Aviation	t.BA.AV.PA-EN.19HS	6	Spring	6. semester
Total Credits		46		

Summer Schools – Restricted places available. Please contact Christoph Regli (christoph.regli@zhaw.ch) to check options and requirements once accepted for the exchange semester:

ATM Summer School	t.BA.WV.ATMSS-EN.19HS	4	During the summer semester break
Flight Test Laboratory Summer School	t.BA.WV.FTL-EN.19HS	4	During the summer semester break

Options from other Engineering Programs

Digital Assistive Technologies	t.BA.WM.DAST-EN.19HS	4	Spring	6. semester
Digital Health	t.BA.WM.DHEAL-EN.19HS	4	Spring	6. semester
Introduction to Computer and Communication Security	t.BA.WM.INCSEC-EN.19HS	4	Spring	6. semester
Rapid Software Prototyping for Engineering Science	t.BA.WM.RASOP-EN.19HS	4	Spring	6. semester
Safety and Systems Engineering	t.BA.WM.SASEN-EN.19HS	4	Spring	6. semester
<i>Total Credits from other Programs</i>		20		

Context modules

German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.20HS	2	*Spring
Intercultural Communication and Management	t.BA.XXK.ICAM-EN.19HS	2	Spring
<i>Total Context Modules_ availability depending on number of students</i>		6	

* availability depending on number of students

Computer Science

Modules in English for Bachelor Exchange Students Spring Semester Study year 2021-2022

Modules / Courses	Module Code	ECTS Credits	Term	Level
Robotics Application Programming	t.BA.WV.RAP-EN.20HS	4	Spring	6. semester
Cloud Computing 2	t.BA.WV.CCP2-EN.19HS	4	Spring	6. semester
Software and System Security 2	t.BA.WV.SWS2-EN.19HS	4	Spring	6. semester
Communication Networks and Services 2	t.BA.WV.CNS2-EN.19HS	4	Spring	6. semester
Internet of Things 2	t.BA.WV.IOT2-EN.19HS	4	Spring	6. semester
Multicore und Parallel Computing	t.BA.WV.MPC-EN.19HS	4	Spring	6. semester
Project Thesis: Computer Science	t.BA.IT.PA-EN.19HS	6	Spring	6. semester
Total Credits		30		

Options from other Engineering Programs

Digital Assistive Technologies	t.BA.WM.DAST-EN.19HS	4	Spring	6. semester
Digital Health	t.BA.WM.DHEAL-EN.19HS	4	Spring	6. semester
Introduction to Computer and Communication Security	t.BA.WM.INCSEC-EN.19HS	4	Spring	6. semester
Rapid Software Prototyping for Engineering Science	t.BA.WM.RASOP-EN.19HS	4	Spring	6. semester
Safety and Systems Engineering	t.BA.WM.SASEN-EN.19HS	4	Spring	6. semester
<i>Total Credits from other Programs</i>		<i>20</i>		

Context modules

German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.20HS	2	*Spring
Intercultural Communication and Management	t.BA.XXK.ICAM-EN.19HS	2	Spring
<i>Total Context Modules_ availability depending on number of students</i>		<i>6</i>	

* availability depending on number of students

Electrical Engineering

Modules in English for Bachelor Exchange Students Spring Semester Study year 2021-2022

Modules / Courses	Module Code	ECTS Credits	Term	Level
Electronics Project 2	t.BA.ET.PM4-EN.19HS	4	Spring	4. semester
Communication Networks and Services 2	t.BA.WV.CNS2-EN.19HS	4	Spring	6. semester
Internet of Things 2	t.BA.WV.IOT2-EN.19HS	4	Spring	6. semester
Multicore und Parallel Computing	t.BA.WV.MPC-EN.19HS	4	Spring	6. semester
Automation 2	t.BA.WV.AUT2-EN.19HS	4	Spring	6. semester
Project Thesis: Electrical Engineering	t.BA.ET.PA-EN.19HS	6	Spring	6. semester
Total Credits		26		

Options from other Engineering Programs

Digital Assistive Technologies	t.BA.WM.DAST-EN.19HS	4	Spring	6. semester
Digital Health	t.BA.WM.DHEAL-EN.19HS	4	Spring	6. semester
Introduction to Computer and Communication Security	t.BA.WM.INCSEC-EN.19HS	4	Spring	6. semester
Rapid Software Prototyping for Engineering Science	t.BA.WM.RASOP-EN.19HS	4	Spring	6. semester
Safety and Systems Engineering	t.BA.WM.SASEN-EN.19HS	4	Spring	6. semester
<i>Total Credits from other Programs</i>		<i>20</i>		

Context modules

German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.20HS	2	*Spring
Intercultural Communication and Management	t.BA.XXK.ICAM-EN.19HS	2	Spring
<i>Total Context Modules_ availability depending on number of students</i>		<i>6</i>	

* availability depending on number of students

Engineering and Management

Modules in English for Bachelor Exchange Students Spring Semester Study year 2021-2022

Modules / Courses	Module Code	ECTS Credits	Term	Level
Statistical Data Mining	t.BA.WI.STDM-EN.19HS	4	Spring	4. semester
Statistical Modelling	t.BA.WI.STMO-EN.19HS	4	Spring	4. semester
Project Thesis: Engineering and Management	t.BA.WI.PA-EN.19HS	6	Spring	6. semester
<i>Total Credits</i>		<i>14</i>		

Options from other Engineering Programs

Digital Assistive Technologies	t.BA.WM.DAST-EN.19HS	4	Spring	6. semester
Digital Health	t.BA.WM.DHEAL-EN.19HS	4	Spring	6. semester
Introduction to Computer and Communication Security	t.BA.WM.INCSEC-EN.19HS	4	Spring	6. semester
Rapid Software Prototyping for Engineering Science	t.BA.WM.RASOP-EN.19HS	4	Spring	6. semester
Safety and Systems Engineering	t.BA.WM.SASEN-EN.19HS	4	Spring	6. semester
<i>Total Credits from other Programs</i>		<i>20</i>		

Context modules

German for Beginners	t.BA.XX.GFB.17HS	2	*Spring	
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.20HS	2	*Spring	
Intercultural Communication and Management	t.BA.XXK.ICAM-EN.19HS	2	Spring	
<i>Total Context Modules_ availability depending on number of students</i>		<i>6</i>		

* availability depending on number of students

Mechanical Engineering

Modules in English for Bachelor Exchange Students Spring Semester Study year 2021-2022

Modules / Courses	Module Code	ECTS Credits	Term	Level
Finite Element Method	t.BA.MT.FEM-EN.19HS	4	Spring	4. semester
Measurement and Control Systems 2	t.BA.MT.MRT2-EN.19HS	4	Spring	4. semester
Project Module 4	t.BA.MT.PM4-EN.19HS	4	Spring	4. semester
Materials Engineering 2	t.BA.MT.WT2-EN.19HS	4	Spring	4. semester
Introduction to Rotary Wing Aircraft	t.BA.WV.HEL1-EN.19HS	4	Spring	6. semester
Smart Products and Production 2	t.BA.WV.SPP2-EN.19HS	4	Spring	6. semester
Systems and Automation Technology 2	t.BA.WV.SYAT2-EN.19HS	4	Spring	6. semester
Project Thesis: Mechanical Engineering	t.BA.MT.PA-EN.19HS	6	Spring	6. semester
Total Credits		34		

Options from other Engineering Programs

Digital Assistive Technologies	t.BA.WM.DAST-EN.19HS	4	Spring	6. semester
Digital Health	t.BA.WM.DHEAL-EN.19HS	4	Spring	6. semester
Introduction to Computer and Communication Security	t.BA.WM.INCSEC-EN.19HS	4	Spring	6. semester
Rapid Software Prototyping for Engineering Science	t.BA.WM.RASOP-EN.19HS	4	Spring	6. semester
Safety and Systems Engineering	t.BA.WM.SASEN-EN.19HS	4	Spring	6. semester
<i>Total Credits from other Programs</i>		<i>20</i>		

Context modules

German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.20HS	2	*Spring
Intercultural Communication and Management	t.BA.XXK.ICAM-EN.19HS	2	Spring
<i>Total Context Modules_ availability depending on number of students</i>		<i>6</i>	

* availability depending on number of students

System Engineering

Modules in English for Bachelor Exchange Students Fall Semester Study year 2021-2022

Modules / Courses	Module Code	ECTS Credits	Term	Level
Product Development for Systems Engineering 4	t.BA.ST.PM4-EN.19HS	4	Spring	4. semester
Automation 2	t.BA.WV.AUT2-EN.19HS	4	Spring	6. semester
Introduction to Rotary Wing Aircraft	t.BA.WV.HELI-EN.19HS	4	Spring	6. semester
Thermal Devices in Medicine	t.BA.WV.MEDT-EN.20HS	4	Spring	6. semester
Project Thesis: Systems Engineering	t.BA.ST.PA-EN.19HS	6	Spring	6. semester
<i>Total Credits</i>		22		

Options from other Engineering Programs

Digital Assistive Technologies	t.BA.WM.DAST-EN.19HS	4	Spring	6. semester
Digital Health	t.BA.WM.DHEAL-EN.19HS	4	Spring	6. semester
Introduction to Computer and Communication Security	t.BA.WM.INCSEC-EN.19HS	4	Spring	6. semester
Rapid Software Prototyping for Engineering Science	t.BA.WM.RASOP-EN.19HS	4	Spring	6. semester
Safety and Systems Engineering	t.BA.WM.SASEN-EN.19HS	4	Spring	6. semester
<i>Total Credits from other Programs</i>		20		

Context modules

German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.20HS	2	*Spring
Intercultural Communication and Management	t.BA.XXK.ICAM-EN.19HS	2	Spring
<i>Total Context Modules_ availability depending on number of students</i>		6	

* availability depending on number of students

Energy and Environmental Engineering

Modules in English for Bachelor Exchange Students Fall Semester Study year 2021-2022

Modules / Courses	Module Code	ECTS Credits	Term	Level
Project Thesis: Energy and Environmental Engineering	t.BA.EU.PA-EN.19HS	6	Spring	6. semester
<i>Total Credits</i>		6		

Options from other Engineering Programs

Digital Assistive Technologies	t.BA.WM.DAST-EN.19HS	4	Spring	6. semester
Digital Health	t.BA.WM.DHEAL-EN.19HS	4	Spring	6. semester
Introduction to Computer and Communication Security	t.BA.WM.INCSEC-EN.19HS	4	Spring	6. semester
Rapid Software Prototyping for Engineering Science	t.BA.WM.RASOP-EN.19HS	4	Spring	6. semester
Safety and Systems Engineering	t.BA.WM.SASEN-EN.19HS	4	Spring	6. semester
<i>Total Credits from other Programs</i>		20		

Context modules

German for Beginners	t.BA.XX.GFB.17HS	2	*Spring
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.20HS	2	*Spring
Intercultural Communication and Management	t.BA.XXK.ICAM-EN.19HS	2	Spring
<i>Total Context Modules_ availability depending on number of students</i>		6	

* availability depending on number of students

Transport Systems

Modules in English for Bachelor Exchange Students
 Fall Semester Study year 2021-2022

Modules / Courses	Module Code	ECTS Credits	Term	Level
Project Thesis: Transport systems	t.BA.VS.PA-EN.19HS	6	Spring	5. and 6. Semester
<i>Total Credits</i>		6		

Options from other Engineering Programs

Digital Assistive Technologies	t.BA.WM.DAST-EN.19HS	4	Spring	6. semester
Digital Health	t.BA.WM.DHEAL-EN.19HS	4	Spring	6. semester
Introduction to Computer and Communication Security	t.BA.WM.INCSEC-EN.19HS	4	Spring	6. semester
Rapid Software Prototyping for Engineering Science	t.BA.WM.RASOP-EN.19HS	4	Spring	6. semester
Safety and Systems Engineering	t.BA.WM.SASEN-EN.19HS	4	Spring	6. semester
<i>Total Credits from other Programs</i>		20		

Context modules

German for Beginners	t.BA.XX.GFB.17HS	2	*Spring	
Introductions to Swiss Society and Politics	t.BA.XX.ISSP-EN.20HS	2	*Spring	
Intercultural Communication and Management	t.BA.XXK.ICAM-EN.19HS	2	Spring	
<i>Total Context Modules_ availability depending on number of students</i>		6		

* availability depending on number of students