

Provisional English Module List

Fall Semester 2025 / 26



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 fall semester are listed.
- This list is subject to changes.
- The exchange students may choose modules out of all programs.
- The Bachelor study programmes span 6 semesters.
- Students who have German language skills level B2, may attend all modules across all study programs. <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
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Dear Incoming Exchange Students

We're excited to announce the expansion of our English module offerings! While a few module descriptions are still being finalized and are not yet linked, we're confident that the updated version will be ready very soon—no later than the beginning of March.

Thank you for your patience as we finalize the details of these exciting new modules!

Kind regards

International Office of ZHAW School of Engineering

Aviation

Module Name	Module Code	ECTS	Semester
Aircraft Systems - Structure and Mechanical Systems	t.BA.AV.ACSYS-SM-EN.19HS	4	3 rd semester
Human Factors	t.BA.AV.HF-EN.19HS	4	3 rd semester
Physics 3: Atmospheric Physics and Applied Meteorology	t.BA.AVP.PHYMET-EN.19HS	4	3 rd semester
Numerical and Experimental Aerodynamics	t.BA.WV.NEA-EN.19HS	4	5 th semester
Project Thesis: Aviation	t.BA.AV.PA-EN.19HS	6	5 th semester
Systems Reliability, Availability, Maintainability and Safety	t.BA.AVS.RAMS-EN.22HS	4	5 th semester
Aircraft Systems – Control Systems	t.BA.AVS.ACSYS-CS-EN.25HS	4	5 th semester
Advanced Mechanics	t.BA.AVS.ADV-MECH-EN.22HS	4	5 th semester
Flight Operations	t.BA.AVS.FL-OPS-EN.22HS	4	5 th semester
Maintenance, Airworthiness Management, Regulations and Operator Organisation	t.BA.AVS.RAMS-EN.25HS	4	5 th semester

Options from other Engineering Programs

due to the structure of the curriculum, you can only choose one module from this group

Digital Health	t.BA.WVU.DHEAL-EN.23HS	4	5 th semester
Introduction to Computer and Communication Security	t.BA.WVU.INCSEC-EN.23HS	4	5 th semester
Principles and Applications of the IoT	t.BA.WVU.PRIAP-EN.23HS	4	5 th semester
Blockweek Safety and Systems Engineering (CW 36/37 before semester start)	t.BA.WVU.BW-SASEN-EN.23HS	4	5 th semester
Digital Assistive Technologies	t.BA.WVU.DAST-EN.23HS	4	5 th semester
Blockweek International Management – Asia (CW5/6 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	6 th semester

Context modules

Blockweek Bionics (CW37 before semester start)	t.BA.WVK.BW-BION-EN.24HS	2	5 th semester
Blockweek Introduction to AI for Engineers (CW 37 before semester start)	t.BA.WVK.BW-INTAI-EN.24HS	2	5 th semester
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	1 st semester
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	5 th semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all
Resilienz-Engineering	t.BA.WVK.RESE-EN.25HS	2	5 th semester
Blockweek Safety and Systems Engineering (CW 36/27 before semester start)	t.BA.WVU.BW-SASEN-EN.25HS	4	5 th semester

*availability depending on number of students

Computer Science

Module Name	Module Code	ECTS	Semester
Cloud Computing 1	t.BA.WV.CCP1-EN.19HS	4	5 th semester
Software and System Security 1	t.BA.WV.SWS1-EN.19HS	4	5 th semester
Internet of Things 1	t.BA.WV.IOT1-EN.19HS	4	5 th semester
Communication Networks and Services 1	t.BA.WV.CNS1-EN.19HS	4	5 th semester
Scientific Computing	t.BA.WV.SCC-EN.19HS	4	5 th semester
Project Thesis: Computer Science	t.BA.IT.PA-EN.19HS	6	5 th semester
Artificial Intelligence 1**	t.BA.WV.AI1-EN.19HS	4	5 th semester
System on Chip Design	t.BA.WV.SCD-EN.19HS	4	5 th semester
Serverless and Cloud Application Development	t.BA.WV.SCAD-EN.20HS	4	5 th semester
Digital Image Processing 1	t.BA.WV.DIP-EN.19HS	4	5 th semester
Reinforcement Learning	t.BA.WV.RL-EN.23HS	4	5 th semester
Distributed Systems	t.BA.WV.DS-EN.25HS	4	5 th semester
Quantum Computing	t.BA.WV.QI-EN.25HS	4	5 th semester
Quantum Computing	t.BA.WV.QC-EN.25HS	4	5 th semester
Intelligent Information Systems 1	t.BA.WV.IIS1-EN.25HS	4	5 th semester
Responsible AI	t.BA.WV.RAI-EN.25HS	4	5 th semester

Options from other Engineering Programs

due to the structure of the curriculum, you can only choose one module from this group

Blockweek International Management - Asia (CW 5/6 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	6 th semester
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Context modules

Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	1 st semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all

* availability depending on number of students

** takes place in Zurich

Data Science

Module Name	Module Code	ECTS	Semester
Data Products and Services	t.BA.DS.DPS-EN.20HS	4	3 rd semester
Advanced Regression Modelling	t.BA.WIVW.ARM-EN.25HS	4	5 th semester
Service Engineering Basics	t.BA.WIVW.SEG-EN.22HS	4	5 th semester
Artificial Intelligence 1**	t.BA.WV.AI1-EN.19HS	4	5 th semester
Project Thesis: Data Science	t.BA.DS.PA-EN.20HS	6	5 th semester
Cloud Computing 1	t.BA.WV.CCP1-EN.19HS	4	5 th semester
Digital Image Processing 1	t.BA.WV.DIP-EN.19HS	4	5 th semester
Internet of Things 1	t.BA.WV.IOT1-EN.19HS	4	5 th semester
Reinforcement Learning	t.BA.WV.RL-EN.23HS	4	5 th semester
Serverless and Cloud Application Development	t.BA.WV.SCAD-EN.20HS	4	5 th semester
Scientific Computing	t.BA.WV.SCC-EN.19HS	4	5 th semester
Software and System Security 1	t.BA.WV.SWS1-EN.19HS	4	5 th semester
Distributed Systems	t.BA.WV.DS-EN.25HS	4	5 th semester
Intelligent Information Systems 1	t.BA.WV.IIS1-EN.25HS	4	5 th semester
Quantum Computing	t.BA.WV.QC-EN.25HS	4	5 th semester
Quantum Computing	t.BA.WV.QI-EN.25HS	4	5 th semester
Responsible AI	t.BA.WV.RAI-EN.25HS	4	5 th semester

Options from other Engineering Programs

due to the structure of the curriculum, you can only choose one module from this group

Digital Health	t.BA.WVU.DHEAL-EN.23HS	4	5 th semester
Introduction to Computer and Communication Security	t.BA.WVU.INCSEC-EN.23HS	4	5 th semester
Principles and Applications of the IoT	t.BA.WVU.PRIAP-EN.23HS	4	5 th semester
Rapid Software Prototyping for Engineering Science	t.BA.WVU.RASOP-EN.23HS	4	5 th semester
Time Series Prediction	t.BA.WV.TSP-EN.24HS	4	5 th semester
Blockweek Safety and Systems Engineering (CW 36/27 before semester start)	t.BA.WVU.BW-SASEN-EN.25HS	4	5 th semester
Digital Assistive Technologies	t.BA.WVU.DAST-EN.23HS	4	5 th semester

Context modules

Blockweek Bionics (CW 36/27 before semester start)	t.BA.WVK.BW-BION-EN.24HS	2	5 th semester
Blockweek Summer School Creating Meaningful and Impactful Solutions (CW 36 before semester start)	t.BA.WVK.BW-CMIS-EN.24HS	2	5 th semester
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	5 th semester
Resilienz-Engineering	t.BA.WVK.RESE-EN.25HS	2	5 th semester
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	1 st semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all

* availability depending on number of students

** takes place in Zurich

Electrical Engineering

Module Name	Module Code	ECTS	Semester
Digital Image Processing 1	t.BA.WV.DIP-EN.19HS	4	5 th semester
Internet of Things 1	t.BA.WV.IOT1-EN.19HS	4	5 th semester
System on Chip Design	t.BA.WV.SCD-EN.19HS	4	5 th semester
Communication Networks and Services 1	t.BA.WV.CNS1-EN.19HS	4	5 th semester
Project Thesis: Electrical Engineering	t.BA.ET.PA-EN.19HS	6	5 th semester
Automation 1	t.BA.WV.AUT1-EN.19HS	4	5 th semester
Electronics Project 1	t.BA.ET.PM3-EN.19HS	4	3 rd semester
Computer Engineering 1	t.BA.XX.CT1-EN.13HS	4	3 rd semester
Signals and Systems 1	t.BA.XX.SISY1-EN.13HS	4	3 rd semester
System on Chip Design	t.BA.WV.SCD-EN.19HS	4	5 th semester
Digital Signal Processing 2	t.BA.WV.DSV2-EN.25HS	4	5 th semester
Wireless Communication 1	t.BA.WV.WCOM1-EN.25HS	4	5 th semester

Options from other Engineering Programs

due to the structure of the curriculum, you can only choose one module from this group

Digital Health	t.BA.WVU.DHEAL-EN.23HS	4	5 th semester
Introduction to Computer and Communication Security	t.BA.WVU.INCSEC-EN.23HS	4	5 th semester
Blockweek Safety and Systems Engineering	t.BA.WVU.BW-SASEN-EN.25HS	4	5 th semester
Digital Assistive Technologies	t.BA.WVU.DAST-EN.23HS	4	5 th semester

Context modules

Blockweek Bionics (CW 36/37 before semester start)	t.BA.WVK.BW-BION-EN.24HS	2	5 th semester
Blockweek Introduction to AI for Engineers (CW 37 before semester start)	t.BA.WVK.BW-INTAI-EN.24HS	2	5 th semester
Resilienz-Engineering	t.BA.WVK.RESE-EN.25HS	2	5 th semester
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	5 th semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all

*availability depending on number of students

Energy and Environmental Engineering

Module Name	Module Code	ECTS	Semester
Project Thesis: Energy and Environmental Engineering	t.BA.EU.PA-EN.19HS	6	5 th semester

Options from other Engineering Programs

due to the structure of the curriculum, you can only choose one module from this group

Digital Assistive Technologies	t.BA.WVU.DAST-EN.23HS	4	5 th semester
Introduction to Computer and Communication Security	t.BA.WVU.INCSEC-EN.23HS	4	5 th semester
Principles and Applications of the IoT	t.BA.WVU.PRIAP-EN.23HS	4	5 th semester
Blockweek Safety and Systems Engineering (CW 36/37 before semester start)	t.BA.WVU.BW-SASEN-EN.25HS	4	5 th semester
Blockweek International Management - Asia (CW 5/6 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	5 th semester

Context modules

Blockweek Bionics (CW 37 before semester start)	t.BA.WVK.BW-BION-EN.24HS	2	5 th semester
Blockweek Introduction to AI for Engineers (CW 37 before semester start)	t.BA.WVK.BW-INTAI-EN.24HS	2	5 th semester
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	1 st semester
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	5 th semester
Resilienz-Engineering	t.BA.WVK.RESE-EN.25HS	2	5 th semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all

*availability depending on number of students

Engineering and Management

Module Name	Module Code	ECTS	Semester
Physics 3: Factory Physics	t.BA.WIP.FAP-EN.19HS	4	3 rd semester
Advanced Regression Modelling	t.BA.WIV.ARM-EN.22HS	4	5 th semester
Databases	t.BA.WIV.DB-EN.22HS	4	5 th semester
Project Thesis: Engineering and Management	t.BA.WI.PA-EN.19HS	6	5 th semester
Financial Enterprise Modelling	t.BA.WI.FUM-EN.19HS	4	3 rd semester
Basics of Statistics	t.BA.XX.GSTAT-EN.20HS	4	3 rd semester
Simulation of Business Processes	t.BA.WIV.SIM-EN.22HS	4	5 th semester
Service Engineering Basics	t.BA.WIV.SEG-EN.22HS	4	5 th semester

Options from other Engineering Programs

due to the structure of the curriculum, you can only choose one module from this group

Digital Assistive Technologies	t.BA.WVU.DAST-EN.23HS	4	5 th semester
Digital Health	t.BA.WVU.DHEAL-EN.23HS	4	5 th semester
Introduction to Computer and Communication Security	t.BA.WVU.INCSEC-EN.23HS	4	5 th semester
Principles and Applications of the IoT	t.BA.WVU.PRIAP-EN.23HS	4	5 th semester
Blockweek Safety and Systems Engineering (CW36/37 before semester start)	t.BA.WVU.BW-SASEN-EN.25HS	4	5 th semester
Blockweek International Management - Asia (CW 5/6 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	5 th semester

Context modules

Blockweek Bionics (CW 37 before semester start)	t.BA.WVK.BW-BION-EN.24HS	2	5 th semester
Blockweek Introduction to AI for Engineers (CW 37 before semester start)	t.BA.WVK.BW-INTAI-EN.24HS	2	5 th semester
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	1 st semester
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	5 th semester
Resilienz-Engineering	t.BA.WVK.RESE-EN.25HS	2	5 th semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all

*availability depending on number of students

Mechanical Engineering

Module Name	Module Code	ECTS	Semester
Thermodynamics	t.BA.XX.FTH2-EN.19HS	4	3 rd semester
Mechanical Vibrations	t.BA.MT.MDYN-EN.19HS	4	5 th semester
Smart Products and Production 1	t.BA.MTS.SPP1-EN.25HS	4	5 th semester
Systems and Automation Technology 1	t.BA.MTS.SYAT1-EN.22HS	4	5 th semester
Additive Manufacturing (3D printing)	t.BA.WV.AFV-EN.19HS	4	5 th semester
Industrial Design: Basic Principles	t.BA.WV.INDE-EN.19HS	4	5 th semester
Numerical and Experimental Aerodynamics	t.BA.WV.NEA-EN.19HS	4	5 th semester
Project Thesis: Mechanical Engineering	t.BA.MT.PA-EN.19HS	6	5 th semester
Measurement and Control Systems 1	t.BA.MT.MRT1-EN.19HS	2	3 rd semester

Options from other Engineering Programs

due to the structure of the curriculum, you can only choose one module from this group

Blockweek International Management - Asia (CW 5/6 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	6 th semester
Digital Health	t.BA.WVU.DHEAL-EN.23HS	4	5 th semester
Introduction to Computer and Communication Security	t.BA.WVU.INCSEC-EN.23HS	4	5 th semester
Digital Assistive Technologies	t.BA.WVU.DAST-EN.23HS	4	5 th semester
Principles and Applications of the IoT	t.BA.WVU.PRIAP-EN.23HS	4	5 th semester
Blockweek Safety and Systems Engineering	t.BA.WVU.BW-SASEN-EN.25HS	4	5 th semester

Context modules

Blockweek Bionics (CW 37 before semester start)	t.BA.WVK.BW-BION-EN.24HS	2	5 th semester
Blockweek Introduction to AI for Engineers (CW37 before semester start)	t.BA.WVK.BW-INTAI-EN.24HS	2	5 th semester
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	1 st semester
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	5 th semester
Resilienz-Engineering	t.BA.WVK.RESE-EN.25HS	2	5 th semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all

*availability depending on number of students

Medical Informatics

Module Name	Module Code	ECTS	Semester
Digital Image Processing 1	t.BA.WV.DIP-EN.19HS	4	5th semester
Internet of Things 1	t.BA.WV.IOT1-EN.19HS	4	5th semester
Intelligent Information Systems 1	t.BA.WV.IIS1-EN.25HS	4	5th semester
Software Engineering	t.BA.WV.SE-EN.25HS	4	5th semester
Project Thesis: Medical Informatics	t.BA.MI.PA-EN.23HS	6	5th semester

Options from other Engineering Programs

due to the structure of the curriculum, you can only choose one module from this group

Digital Assistive Technologies	t.BA.WVU.DAST-EN.23HS	4	5 th semester
Principles and Applications of the IoT	t.BA.WVU.PRIAP-EN.23HS	4	5 th semester
Blockweek International Management – Asia (CW 5/6 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	6 th semester

Context modules

Blockweek Bionics (CW 37 before semester start)	t.BA.WVK.BW-BION-EN.24HS	2	5 th semester
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	5 th semester
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	5 th semester
Resilienz-Engineering	WVK.RESE-EN	2	5 th semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all

Mobility Science

Module Name	Module Code	ECTS	Semester
Project Thesis: Transport systems	t.BA.VS.PA-EN.19HS	6	5 th semester

Options from other Engineering Programs

Digital Assistive Technologies	t.BA.WVU.DAST-EN.23HS	4	5 th semester
Digital Health	t.BA.WVU.DHEAL-EN.23HS	4	5 th semester
Introduction to Computer and Communication Security	t.BA.WVU.INCSEC-EN.23HS	4	5 th semester
Principles and Applications of the IoT	t.BA.WVU.PRIAP-EN.23HS	4	5 th semester
Blockweek International Management - Asia (CW 5/6 after semester ended)	t.BA.WVU.BW-INTMAN-EN.24HS	4	

Context modules

Blockweek Bionics (CW 37 before semester start)	t.BA.WVK.BW-BION-EN.24HS	2	5 th semester
Blockweek Introduction to AI for Engineers (CW 37 before semester start)	t.BA.WVK.BW-INTAI-EN.24HS	2	5 th semester
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	1 st semester
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	5 th semester
Resilienz-Engineering	t.BA.WVK.RESE-EN.25HS	2	5 th semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all

*availability depending on number of students

Systems Engineering

Module Name	Module Code	ECTS	Semester
Automation 1	t.BA.WV.AUT1-EN.19HS	4	5 th semester
Industrial Design: Basic Principles	t.BA.WV.INDE-EN.19HS	4	5 th semester
Digital Image Processing 1	t.BA.WV.DIP-EN.19HS	4	5 th semester
Project Thesis: Systems Engineering	t.BA.ST.PA-EN.19HS	6	5 th semester
Additive Manufacturing (3D printing)	t.BA.WV.AFV-EN.19HS	4	5 th semester

Options from other Engineering Programs

due to the structure of the curriculum, you can only choose one module from this group

Digital Health	t.BA.WVU.DHEAL-EN.23HS	4	5 th semester
Introduction to Computer and Communication Security	t.BA.WVU.INCSEC-EN.23HS	4	5 th semester
Principles and Applications of the IoT	t.BA.WVU.PRIAP-EN.23HS	4	5 th semester
Digital Assistive Technologies	t.BA.WVU.DAST-EN.23HS	4	5 th semester
Blockweek Safety and Systems Engineering (CW 36/37 before semester start)	t.BA.WVU.BW-SASEN-EN.25HS	4	5 th semester

Context modules

Blockweek Bionics (CW 37 before semester start)	t.BA.WVK.BW-BION-EN.24HS	2	5 th semester
Blockweek Introduction to AI for Engineers (CW37 before semester start)	t.BA.WVK.BW-INTAI-EN.24HS	2	5 th semester
Intercultural Communication and Management	t.BA.XWK.ICAM-EN.22HS	2	1 st semester
English for Academic Purposes	t.BA.WVK.EAP-EN.20HS	2	5 th semester
Resilienz-Engineering	t.BA.WVK.RESE-EN.25HS	2	5 th semester
German for Beginners*	t.BA.XX.GFB.17HS	2	all
Introductions to Swiss Society and Politics*	t.BA.XX.ISSP-EN.21HS	2	all

*availability depending on number of students