

International Study Program Curriculum

Courses Taught in English at the DHBW Ravensburg - Academic Year 2025/2027

School of Engineering - Course Offer 2026/2027

All courses of the School of Engineering are taught at our Campus in Friedrichshafen. The course offering of the School of Engineering consists of core courses where we guarantee that those courses will be offered in English and elective courses which might be offered in English. The courses and lectures below are grouped by the primary field of study to which they belong, you can choose courses from different field of studies. Due to organizational reasons, some courses might have time conflicts. The schedule is only finalized shortly before the semester begins. In addition to the core courses and elective courses we offer a variety of engineering projects and engineering laboratories that can be carried out at any time in the academic year.

All exams are within the regular term dates, usually in the last two weeks of the term.

Core Courses/Lectures, Campus Friedrichshafen

Field of Study	Fall (Oct – Dec 2026) (ECTS)	Winter (Jan – Mar 2027) (ECTS)	Spring (Apr- Jun 2027) (ECTS)
Electrical Engineering	Mobile Communications (3)	Software Engineering (2.5)	Visualization and Optimization (5)
	High-Frequency Technology incl. Communication Technology Lab (5)		
	Industrial Bus Systems (2)		
Mechanical Engineering	Engineering Design & Development (3-5)		
	Quality Management (3-5)		
Computer Science		Operating Systems (2.5)	

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Field of Study	Fall (Oct – Dec 2026) (ECTS)	Winter (Jan – Mar 2027) (ECTS)	Spring (Apr- Jun 2027) (ECTS)
Aerospace Engineering	Software Engineering (5)	Flight Mechanics (5)	
		Simulation Technology (2.5)	
Industrial Engineering	Production and Logistics (5)		International Marketing (2.5)
	International Business (5)		Technical Procurement (5)
Mechatronics	Applied Electronics (5)		
Embedded Systems	Automotive Software Engineering Part 1** (2.5)	Automotive Software Engineering Part 2 (2.5)**	
	Aerospace Software Engineering Part 1** (2.5)	Aerospace Software Engineering Part 2 (2.5)**	
	Software / Hardware Project (2-5)	Simulation Technology (2.5)	Software / Hardware Project (2-5)

** Note: Aerospace & Automotive Software Engineering are combined lectures, so you can only get credit for either Automotive Software Engineering or Aerospace Software Engineering.

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Elective Courses/Lectures, Campus Friedrichshafen

Field of Study	Fall (Oct – Dec 2026) (ECTS)	Winter (Jan – Mar 2027) (ECTS)	Spring (Apr- Jun 2027) (ECTS)
Electrical Engineering	Introduction to Robotics (3)		
Mechanical Engineering		Engineering of Lightweight Structures (5)	
Aerospace Engineering		Finite Elements (3)	
Industrial Engineering	Industry 4.0 / Smart Factory (2.5)		Industry 4.0 Digitalization / Blockchain Technology (2.5)
	Introduction to Artificial Intelligence (2.5)		
Embedded Systems	DevOps & Cloud Engineering		

Elective Courses, Campus Ravensburg

Additional Course of the International Business Department and the International Study Program.

Module	Fall (Oct – Dec 2026) (ECTS)	Winter (Jan – Mar 2027) (ECTS)	Spring (Apr- Jun 2027) (ECTS)
Intercultural Management	Cultural Aspects of Germany (2)	Cultural Aspects of Germany (2)	Cultural Aspects of Germany (2)
		Intercultural Cooking (1)	Intercultural Cooking (1)
Methods & Skills	Introduction to Research and Academic Writing (2)		Introduction to Research and Academic Writing (2)
Language	German for Beginners (4)	German for Beginners (4)	German for Beginners (4)

Engineering Projects / Engineering Laboratories, Campus Friedrichshafen

(Study Projects, Self-Directed Projects, Bachelor Thesis, Master Thesis)

The Department of Engineering offers opportunities for the following study modules:

- Student Research Project (**3 months fulltime** or **6 months part-time**) with 10 credits
- Bachelor Thesis (**3 months fulltime**) with 12 credits
- Master Thesis (**6 months fulltime**) with 25 credits

The projects can be carried out at any time in the period from October to June. The respective subjects (project contents) can be selected from current topics, see below. Prior detailed agreement with the supervisor is necessary!

Field of Study	Study Modules
Electrical Engineering	High-Frequency Technology and/or Electro Magnetic Compatibility
	Racing Car Development (GFR Team)
	Autonomous/Connected Vehicles
Mechanical Engineering	Lightweight Construction
	Industrial Measurement and Sensor Technology
	Industry 4.0 Learning Factory “Zukunftsfabrik”
	Agricultural Mechatronics / Simulation
Computer Science	Offensive Security
Aerospace Engineering	Flight Simulation

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	Flight Control/Handling Qualities
	Aerodynamics/CFD
	Drivetrains for Aircraft and Engines
	UAV/Lighter-than-air
Industrial Engineering	Electro mobility: Project “eMule 5.0”
Embedded Systems	Autonomous/Connected Vehicles
	Safety Critical Systems Engineering