

AIRCRAFT > HELICOPTERS > DRONES > DESIGN & SIMULATION > LIGHTWEIGHT DESIGN > PROPULSION > AIR TRANSPORT

The fascination of aviation - this interdisciplinary programme combines mathematical and scientific principles, mechatronics, fluid mechanics, lightweight construction, design and simulation, with a passion for aircraft engineering and aviation. The training offered on this degree programme is unique in Austria, and graduates enjoy excellent career opportunities in almost all areas of aviation.

After learning the relevant principles during the first year of the programme, our students then move on to study aviation-related topics such as aircraft design, aerodynamics, flight mechanics, propulsion systems and avionics. The **Aviation** specialisation offers lectures in business studies, seminars in aviation industry English, and preparatory courses for qualifying as a certified project manager. Working with companies and partner universities abroad provides an early taste of the international flair which is typical of the aviation industry. The **Pilot** specialisation in the third year includes an extended internship during which students can join an airline or flying school and train as an airline pilot.* Both specialisations require the student to write a bachelor's thesis.

*This part of the course does not take place at FH JOANNEUM and must be organised and financed by the students themselves.

"I would like to emphasise in particular the competent teams and optimal group size. The internships enabled me to gather practical experience and formed the starting point for my professional career. The lecturers are experts in their field and offer unrivalled insight into the aviation industry. This intensive programme provides the best possible conditions for finding an attractive international job."

Katharina-Maria Steinberger, MSc, Graduate

FACTS

- Bachelor of Science in Engineering (BSc)
- Full-time
- 6 semesters / 180 ECTS
- Language of instruction: German
- 35 places per year
- Head of Institute:
FH-Prof. DI Dr. Holger Flühr
- FH JOANNEUM Graz

www.fh-joanneum.at/lav

CAREER PROSPECTS

Graduates of the bachelor degree programme can specialise further on the master degree programme in Aviation at FH JOANNEUM, specialising either in aeronautical engineering or aviation management. Alternatively, they can immediately begin their professional careers. Their interdisciplinary and practical training qualifies them for employment in almost all areas of aviation, with exciting careers awaiting them in aircraft development and construction, production, sales and quality assurance, or at airports, airlines and aviation authorities.

“The FH JOANNEUM bachelor degree programme in Aviation provided me with direct access to my career in the aviation industry.”

Stefan Graml, Graduate
Design Engineer Avionics / Electric Grob Aircraft AG,
Germany

CURRICULUM: 180 ECTS (30 ECTS per semester)

1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	
Applied Mathematics 1 6 ECTS	Applied Mathematics 2 6 ECTS	Applied Mathematics 3 5 ECTS	Usability Engineering 2 ECTS	Scientific Working Technique 2 ECTS	Technology and Society 5 ECTS	
		Scientific Computing 3 ECTS	CAX 3 2 ECTS	Aerodynamics 4 ECTS		
Physik 5 ECTS	Programming 2 3 ECTS	CAx 2 4 ECTS	Engineering Fundamentals 4 11 ECTS	Flight Mechanics & Flight Simulation 4 ECTS	Internship 19 ECTS	
Programming 1 2 ECTS	CAx 1 3 ECTS					
Engineering Fundamentals 1 8 ECTS	Engineering Fundamentals 2 7 ECTS	Engineering Fundamentals 3 8 ECTS		Aircraft Engineering 2 4 ECTS		Aircraft Engineering 3 9 ECTS
	Aviation Fundamentals 2 3 ECTS	Aircraft Engineering 1 4 ECTS				
Engineering Fundamentals 1 5 ECTS	+ Electives 2 ECTS	Aeronautical English 3 2 ECTS	+ Electives 5 ECTS	Aeronautical English 5 2 ECTS		
Aeronautical English 1 2 ECTS	Aeronautical English 2 2 ECTS	Aeronautical English 4 2 ECTS	Aeronautical English 4 2 ECTS	Aeronautical English 5 2 ECTS	Bachelor's Thesis 2 6 ECTS	
Aeronautical Engineering Lab 1 2 ECTS	Business Administration 1 2 ECTS	Business Administration 2 2 ECTS	Project Management 2 ECTS	Project / Bachelor's Thesis 1 4 ECTS		
Aeronautical Engineering Lab 1 2 ECTS	Aeronautical Engineering Lab 2 2 ECTS	Aeronautical Engineering Lab 3 2 ECTS	Aeronautical Engineering Lab 4 2 ECTS	Project, Lab, Bachelor's Thesis, Internship		