

## Master degree programme eHEALTH

### HEALTH > COMPUTER SCIENCES > MANAGEMENT > QUALITY OF LIFE > PREVENTION > PROCESSES > INTERNET

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The master degree programme in eHealth offers students the opportunity to qualify for a rapidly growing profession and play an active role in modernising the social and healthcare systems. The course allows them to expand and deepen their knowledge and skills in this area.

Students on the master degree programme study modern computer science methods that are revolutionising the world of communications and knowledge management, including computational intelligence, business intelligence and decision support systems.

They develop and explore smart technologies and deepen their knowledge of health science disciplines such as public health, health technology assessment or evidence based medicine.

Students also learn business management and organisation skills in order to prepare them for future leadership roles.

A master's thesis and student projects strengthen their skills in the independent development of eHealth projects and scientific work.

*“After completing my bachelor in Information Management, I decided to continue with the eHealth master degree programme, giving me the chance to deepen the technical and business aspects of my education and to learn more about innovative healthcare informatics and the healthcare system in particular. I want to learn how to apply this knowledge so that I can specialise in this field in my future career.”*

Christina Breitfuss, BSc, MSc  
Graduate of the bachelor degree programme in Information Management  
and the master degree programme in eHealth

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#### FACTS

- Master of Science in Engineering (MSc)
- 4 semesters / 120 ECTS
- Work-friendly
- 20 places per year
- Language of instruction: German
- Head of Degree Programme:  
DI Dr. Robert Mischak MPH
- FH JOANNEUM Graz

[www.fh-joanneum.at/eht](http://www.fh-joanneum.at/eht)

## CAREER PROSPECTS

eHealth is an international movement, which will enjoy increasing prominence in Austria. Well established terms, including telemedicine, health telematics, health informatics or healthcare engineering, indicate the speed of developments in the field to date. The broader term 'eHealth' covers subjects such as e-government, e-card, e-medication, and electronic health records. eHealth involves all aspects of information flow, well-organised processes, efficiency and effectiveness, planning and quality management in the social and healthcare sector. Graduates of the eHealth master degree programme are extremely well qualified to face current challenges in this field. For those looking to follow an academic path, the doors are also open to graduates wishing to complete a doctorate in this field.

*“Directly after completing the eHealth master degree programme I transferred to the Ludwig Boltzmann Institute for Translational Heart Failure Research, where I continue my academic career. I work closely with the AIT Austrian Institute of Technology on clinical studies which apply information and communications technologies to investigate and optimise therapy for chronic disease.”*

Martin Kropf, BSc, MSc  
Graduate in eHealth  
AIT, LBI for Translational Heart Failure Research

CURRICULUM: 120 ECTS (30 ECTS per semester)

1st semester	2nd semester	3rd semester	4th semester
Business Management and Organisation in Healthcare 5 ECTS	Business Management and Organisation in Healthcare 5 ECTS	Decision Support Systems, Human Centered Interaction, mHealth 7.5 ECTS	Master's Thesis and Seminar 30 ECTS
Business Intelligence and Data Mining 5 ECTS	Biostatistics and Epidemiology 5 ECTS		
Methods of Medical Software Development, Software Architectures, IT Strategy 15 ECTS	Computational Intelligence, Digital Image Processing, Electronic Health Records 12.5 ECTS	Clinical Research, HTA, Public Health, Evidence Based Medicine, GxP 10 ECTS	
	Change Management, Clinical and Intersectoral Paths 5 ECTS	eHealth Project 10 ECTS	
Compulsory Elective 5 ECTS	Scientific Communication on Health Issues 2.5 ECTS	Scientific Communication on Health Issues 2.5 ECTS	
Applied Computer Science 40 ECTS	Medicine, Health Management 35 ECTS	English & Social Skills 5 ECTS	