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BSc Business Information Technology

BSc Wirtschaftsinformatik

Andreas Reber

1 March 2024

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Digital transformation: happening right now and near you!

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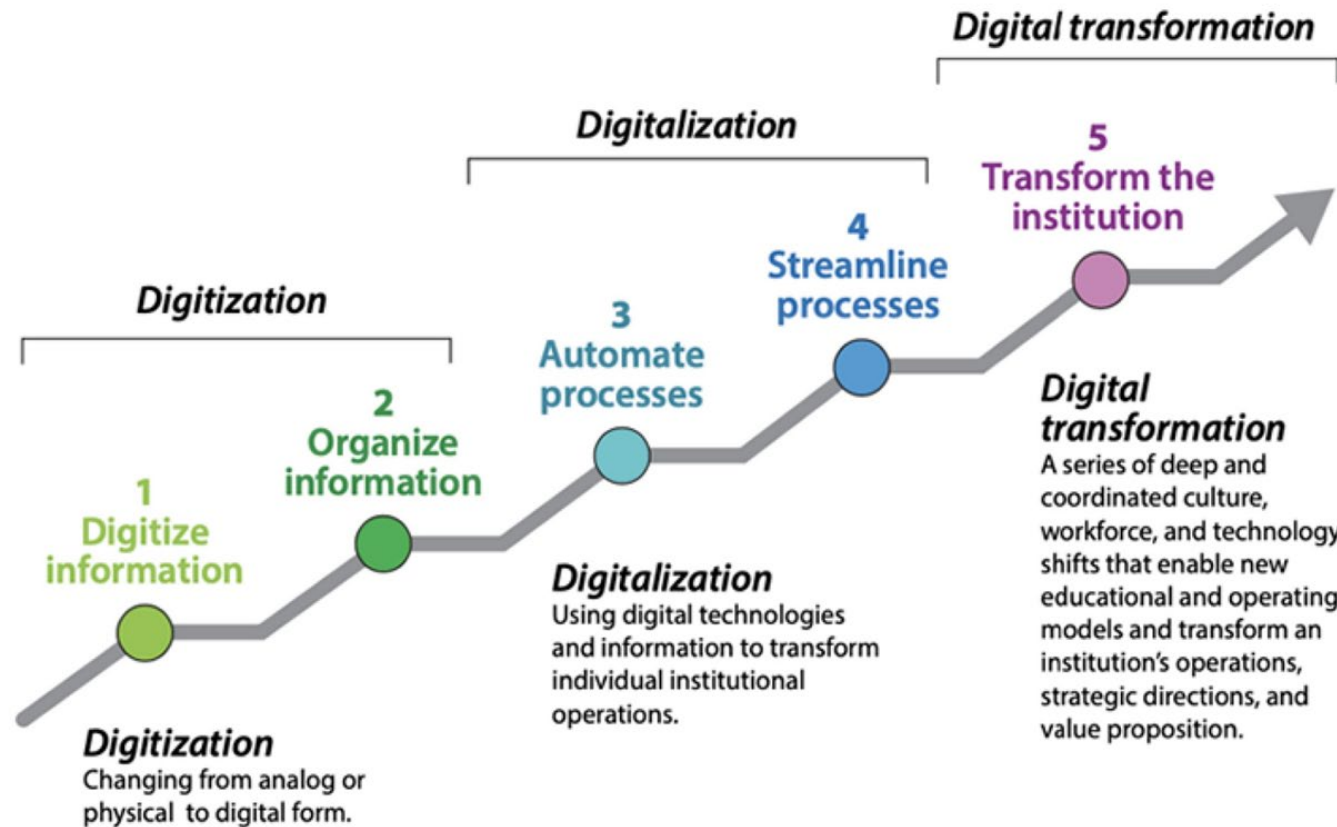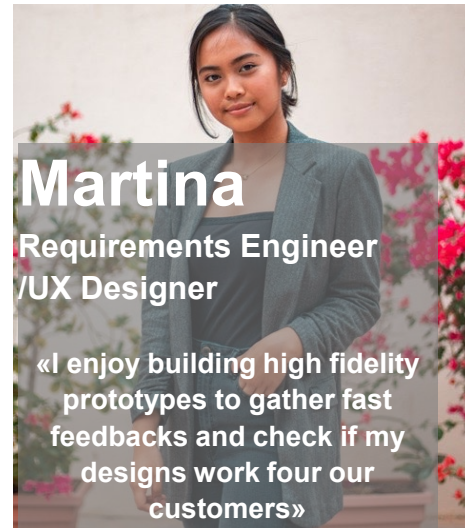
Typical jobs for WI/BIT graduates

Martina
Requirements Engineer /UX Designer

«I enjoy building high fidelity prototypes to gather fast feedbacks and check if my designs work four our customers»
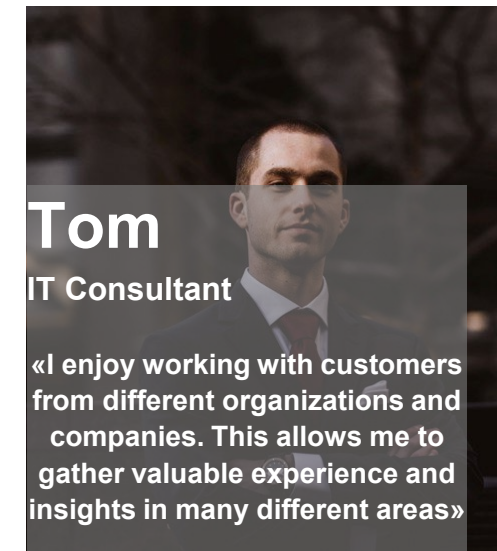
Sophia
Business Analyst

«Working agile to straddle the line between IT and the business and improve efficiency.»

Stefan
Product Manager

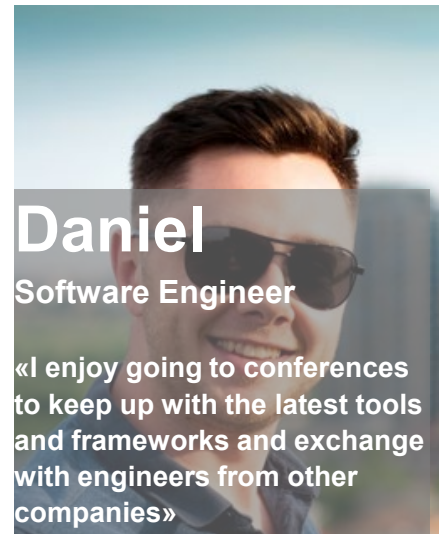«I consider myself an allrounder. I work with customers, designers, engineers and business. My superpower is data ;-)»

Claudia
Project Manager

«Supporting large projects, where multiple departments are working together is challenging but rewarding»
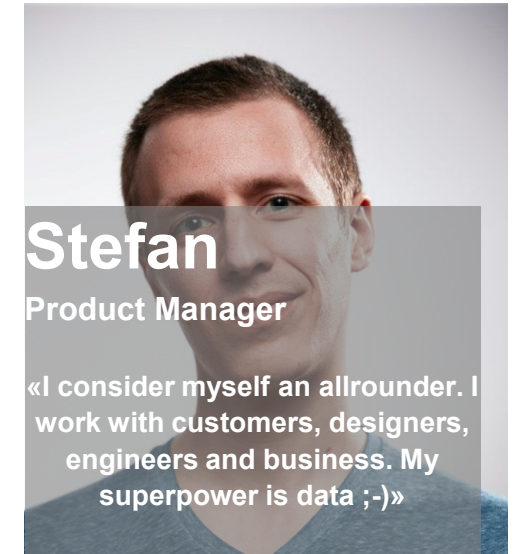
Daniel
Software Engineer

«I enjoy going to conferences to keep up with the latest tools and frameworks and exchange with engineers from other companies»

Tom
IT Consultant

«I enjoy working with customers from different organizations and companies. This allows me to gather valuable experience and insights in many different areas»

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…and many other professional opportunities

Data Analyst /
Data Scientist

Cybersecurity
Manager

IT Manager

IS / IT Auditor

IT Account
Manager

Blockchain Expert
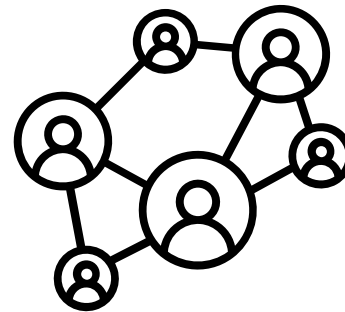
… jobs not even
invented yet…

IT Entrepreneur

What is Business Information Technology?

Innovation
Communication
Modelling

Analysis

Design

Digital Transformation

Business

IT

Business Information Technology

Information Technology

Business Administration

Foundation

You build the bridge between IT and the business departments

You are helping to shape the digital future

You know what a computer scientist is talking about

You find out where the problem lies

You know what a business economist is talking about

You are convincing and knowledgeable

Your advantages of the study program

Broad specialist and industry knowledge in business and IT

Specialisation in a sub-area of business information technology

> 1/3 of the program can be customized

Practical relevance - practical projects / case studies

Optional semester abroad in the full-time and part-time model

Wide range of career opportunities

Pie chart segments:
- Business Information Technology 25/30
- Information Technology 25/30
- Foundation 25/30
- Business Administration 25/30
- Student Work 25
- Speciali-sation 20
- Electives 15
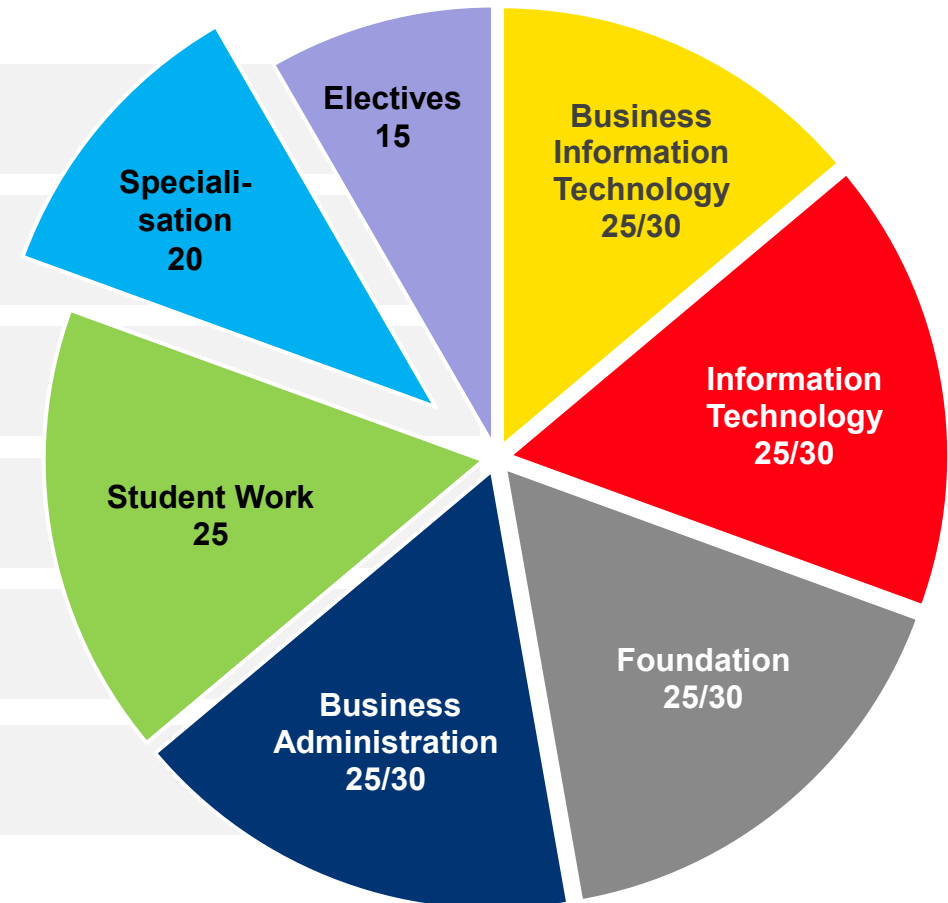
Module overview BSc Business Information Technology / Full-time

1. YEAR		2. YEAR		3. YEAR	
1. Semester	2. Semester	3. Semester (✈)	4. Semester	5. Semester	6. Semester

Assessment modules

1. Semester	2. Semester	3. Semester (✈)	4. Semester	5. Semester	6. Semester
Business Communication 1 — Professional written communication — 5	**Business Communication 2** — Assertive oral communication — 5	**Business Maths 2** — Foundations of data science — 5	**Statistics and Probability** — From data to insights — 5	**Specialisation** — 1. Modul — 5	**Specialisation** — 3. Modul — 5
Business Maths 1 — Logical and functional thinking — 5	**Accounting** — Balancing the books — 5	**Ethics and Law** — Behaving ethical and legal — 5	**Logistics and Supply Chain Management** — Managing the value chain — 5	**Specialisation** — 2. Modul — 5	**Specialisation** — 4. Modul — 5
Principles of Management — Managing the company — 5	**Economics** — Understanding the business environment — 5	**Corporate Finance and Controlling** — Financing the company — 5	**Business Intelligence** — Analysing data and managing information — 5	**Digital Business Models** — Digital transformation of the business — 5	**Corporate Strategy** — Business simulation game — 5
Introduction to BIT — Understanding the world of business IT — 5	**Business Process Management** — Designing and optimising processes — 5	**Enterprise Systems** — Understanding business applications — 5	**Topics in Business Information** — Independent research project — 5	**Practical Project** — Managing a real-world project — 10	**Bachelor Thesis** — Applying BIT knowledge to a real-world business challenge — 10
Programming 1 — Introduction to software development — 5	**Project Management** — Delivering successful projects — 5	**Database Technology** — Managing data — 5	**Internet Technology** — User-centric web app design — 5		
Requirements Engineering — Managing user needs — 5	**Programming 2** — Advanced software development — 5	**IT-Security** — Securing the IT infrastructure — 5	**Electives (3rd Semester onwards)** — Individualise your studies		**International Projects** — Beyond borders

Foundation 25/30 ECTS	Business Administration 25/30 ECTS	Business Information Technology 25/30 ECTS	Information Technology 25/30 ECTS	Student Work 25 ECTS	Specialisation 20 ECTS	Electives ≥15 ECTS

Module overview BSc Business Information Technology / Part-time

	1. YEAR			2. YEAR			3. YEAR		4. YEAR

1. Semester	2. Semester	3. Semester	4. Semester (✈)	5. Semester (✈)	6. Semester	7. Semester	8. Semester
Business Maths 1 — Logical and functional thinking — 5	**Business Communication 1** — Professional written communication — 5	**Business Communication 2** — Assertive oral communication — 5	**Business Maths 2** — Foundations of data science — 5	**Statistics and Probability** — From data to insights — 5	**Ethics and Law** — Behaving ethical and legal — 5	**Specialisation** 1. Modul — 5	**Specialisation** 3. Modul — 5
Principles of Management — Managing the company — 5	**Accounting** — Balancing the books — 5	**Economics** — Understanding the business environment — 5	**Corporate Finance and Controlling** — Financing the company — 5	**Logistics and Supply Chain Management** — Managing the value chain — 5	**Corporate Strategy** — Business simulation game — 5	**Specialisation** 2. Modul — 5	**Specialisation** 4. Modul — 5
Introduction to BIT — Understanding the world of business IT — 5	**Business Process Management** — Designing and optimising processes — 5	**Enterprise Systems** — Understanding business applications — 5	**Project Management** — Delivering successful projects — 5	**Business Intelligence** — Analysing data and managing information — 5	**Digital Business Models** — Digital transformation of the business — 5	**Practical Project** — Managing a real-world project — 10	**Bachelor Thesis** — Applying BIT knowledge to a real-world business challenge — 10
Programming 1 — Introduction to software development — 5	**Requirements Engineering** — Managing user needs — 5	**Programming 2** — Advanced software development — 5	**Database Technology** — Managing data — 5	**IT-Security** — Securing the IT infrastructure — 5	**Internet Technology** — User-centric web app design — 5		
Assessment Modules	**Reflection Job Experience** — Know-how transfer — 5	**Electives 3rd Semester onwards** — Individualise your studies	**Reflection Job Experience** — Know-how transfer — 5	**Topics in Business Information** — Independent research project — 5	**Reflection Job Experience** — Know-how transfer — 5		**International Projects** — Beyond borders — 3-5

Foundation 25/30 ECTS	Business Administration 25/30 ECTS	Business Information Technology 25/30 ECTS	Information Technology 25/30 ECTS	Student Work 25 ECTS	Specialisation 20 ECTS	Electives ≥15 ECTS

(✈) Ideal semester abroad

Specialisations

	Semester 5/7	Semester 6/8	
Software Engineering Leadership	Agile Application Lifecycle Management / Software Engineering	Software Architecture / IT-Project	**Technical focus**
Business Analytics	Machine Learning with Python / Big-, Semi- and Unstructured Data	Time Series Analysis with R / Analytics Project	**Analytical focus**
Cybersecurity Management	Data Privacy / Strategic Digital Management	Cyber Resilience / Information Systems Auditing	**Risk focus**
Digital Business Management	Digital Innovation & Design Thinking / Strategic Digital Management	Cyber Resilience / Information Systems Auditing	**Management focus**

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Examples of BIT student projects

Adjusting enterprise IT cost-model for public cloud services

Requirements analysis and vendor evaluation for data governance

Migration and change management concept for a new intranet tool

Automated solution for pharmaceutical quality system

Developing an IT strategy

Requirements specification for a construction project software

Data visualization using Business Intelligence

Digital optimization of the sales process

AI to identify audit relevant documentation

Master data management through machine learning

Developing and testing data mining algorithms

Process optimization and digitalization

BIS

SwissLife

swisscom

Roche

Endress+Hauser EH

UBS

Huberag

Worldline

Deloitte.

FRANKE

Smart Risk
CONSULTING

n|w

calingo

MachinaWare

Semester Abroad

– We foster relationships with partner universities all around the world

Requirements
– Assessment passed
– Learning agreement

International network

Academic Year

| Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |

KW 38　　　　　　　**KW 51**　　　　　　　**KW 8**　　　　　　　**KW 23**

Autumn semester　　　　　**Spring semester**
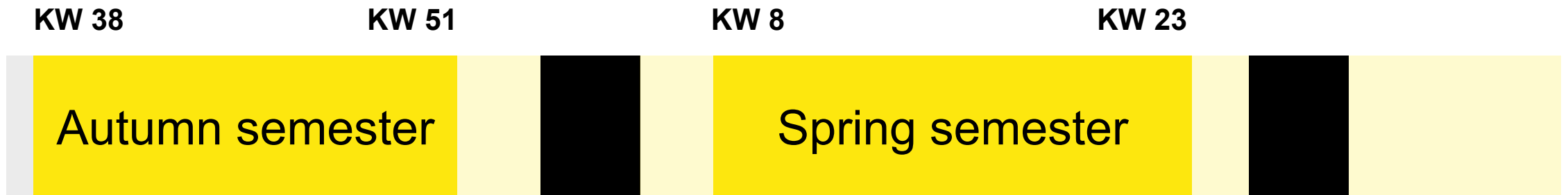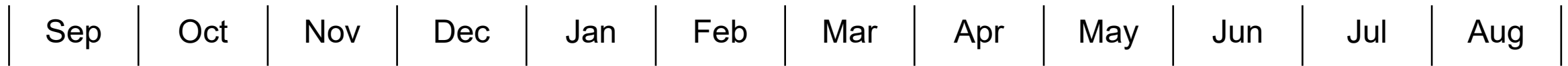
14 weeks

16 weeks

　KW 37, Introductory days　　　**Lectures**　　　**Exams**

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General teaching times*

in Basel (in English)

Full-Time

	Mon	Tue	Wed	Thu	Fri	Sat
08.15-12.00	■	■	■	■		
13.15-17.00	■	■	■	■		
17.15-21.00						

Part-Time

	Mon	Tue	Wed	Thu	Fri	Sat
08.15-12.00						■
13.15-17.00	■		■			
17.15-21.00	■		■			

*)Teaching times will differ in the final year, since specialisations will be at a specific day for all students
(full-time or part-time; in either Basel, Brugg, or Olten).
Some modules (e.g. electives) might take place outside the normal class hours and outside your "home" campus.

General teaching times*

in Brugg-Windisch (in English)

Full-Time

	Mon	Tue	Wed	Thu	Fri	Sat
08.15-12.00	■	■	■	■	■	
13.15-17.00	■	■	■	■	■	
17.15-21.00						

Part-Time

	Mon	Tue	Wed	Thu	Fri	Sat
08.15-12.00				■	■	■
13.15-17.00				■	■	
17.15-21.00						

*)Teaching times will differ in the final year, since specialisations will be at a specific day for all students (full-time or part-time; in either Basel, Brugg, or Olten).
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General teaching times*

in Olten (in German)

Full-Time

	Mon	Tue	Wed	Thu	Fri	Sat
08.15-12.00	■	■	■	■	■	
13.15-17.00	■	■	■	■	■	
17.15-21.00						

Part-Time

	Mon	Tue	Wed	Thu	Fri	Sat
08.15-12.00					■	■
13.15-17.00					■	
17.15-21.00		■				

*)Teaching times will differ in the final year, since specialisations will be at a specific day for all students
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Admission

Professional Baccalaureate, commercial or technical **Commercial School (WMS) with Professional Baccalaureate**	**Direct** NO additional work experience needed	
Professional Baccalaureate, other than commercial or general Baccalaureate (Gymnasiale Matura)	**+ 12 month work experience**	**START PROGRAMME**
Other Tertiary Education	**Entrance examination**	

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Inquiries concerning applications

(e.g. international applications, professional experience, etc.)

All questions about international applications should be addressed to the central enrollment office in Olten:

admission.business@fhnw.ch

See also: https://www.fhnw.ch/en/people/admissions-office

Admissions Office

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Links for online application

BSc Wirtschaftsinformatik

Standort: Olten
Studienmodelle: Vollzeit & Teilzeit
Dauer: 3 oder 4 Jahre
Start: September

Jetzt anmelden!
fhnw.ch/wi-studieren

Studiengangleitung:
Prof. Andreas Reber (Olten)

BSc Business Information Technology

Location: Basel, Brugg-Windisch
Study Mode: Full-time & Part-time
Duration: 3 or 4 years
Start: September

Register now!
fhnw.ch/study-bit

Dean:
Prof. Dr. Michael Pülz (Basel, Brugg-Windisch)

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Q&A session