

# BSc Business Information Technology («BIT»)

## BSc Wirtschaftsinformatik

Prof. Dr. Michael Pülz

23 March 2024



# BIT Team (Basel and Brugg-Windisch)



## Programme Head

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## Administration

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## WI Team (Olten)



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# Student



**Michelle Jane Liva**  
Student BSc Business Information  
Technology (Basel)  
Parttime

# BSc in Business Information Technology

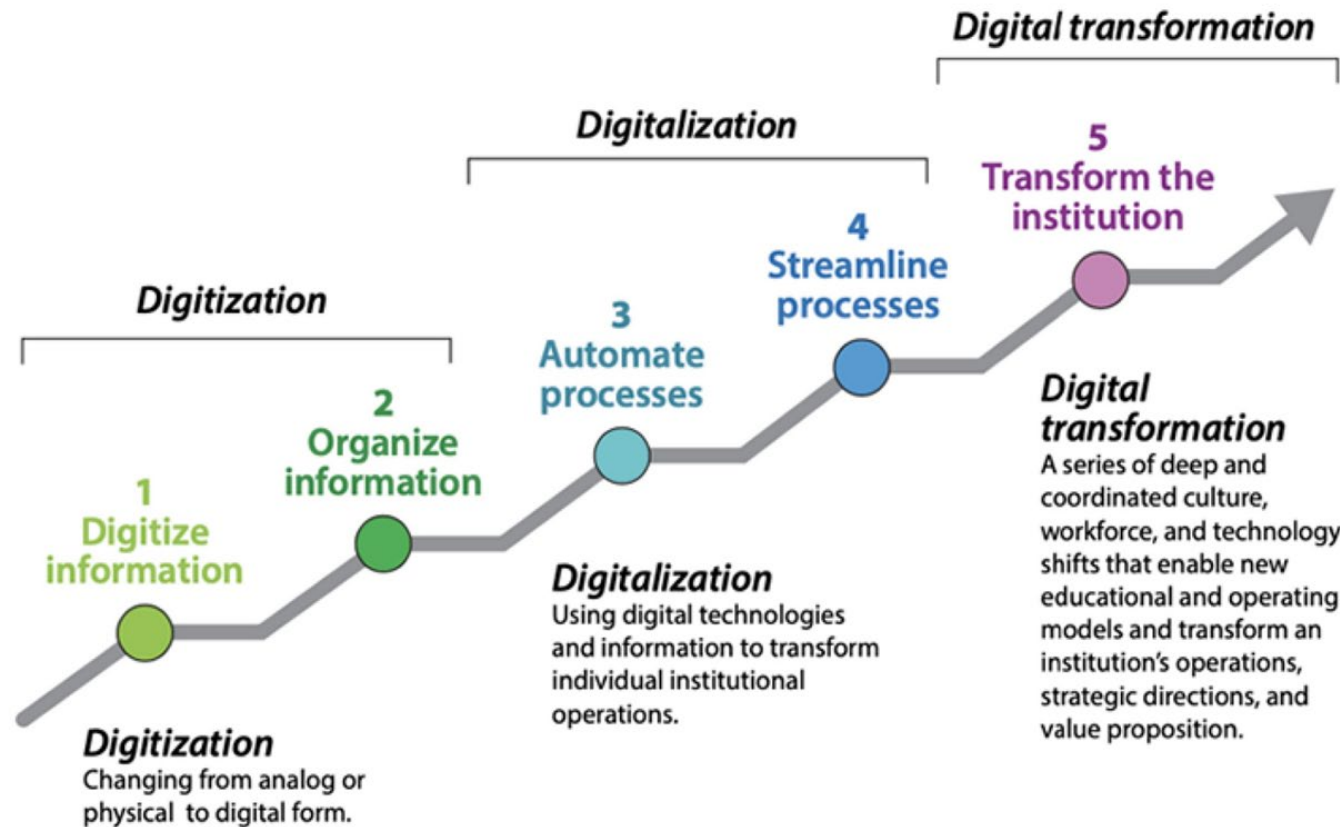


- Play an active role in shaping **digital transformation**
- Be the bridge between **business** and **information technology**
- Study in an **English-speaking international** environment

Register now!  
[www.fhnw.ch/study-bit](http://www.fhnw.ch/study-bit)



# Digital transformation: happening right now and near you!



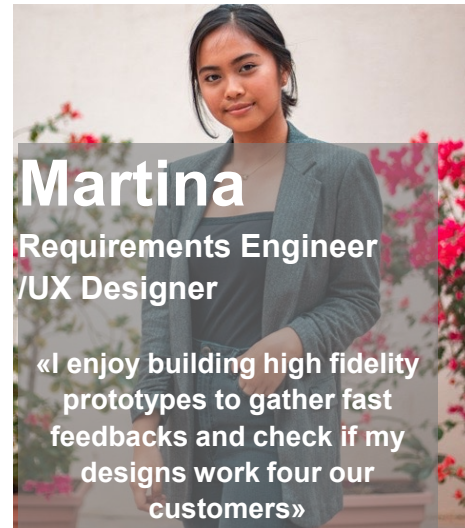
www.jisc.ac.uk

# Typical jobs for BIT graduates



**Claudia**  
Project Manager

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



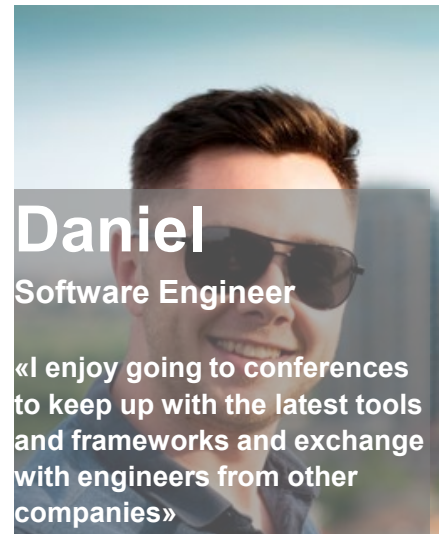
**Martina**  
Requirements Engineer  
/UX Designer

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



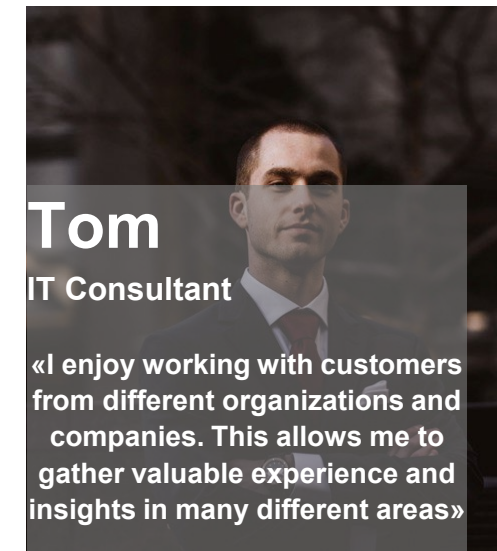
**Sophia**  
Business Analyst

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



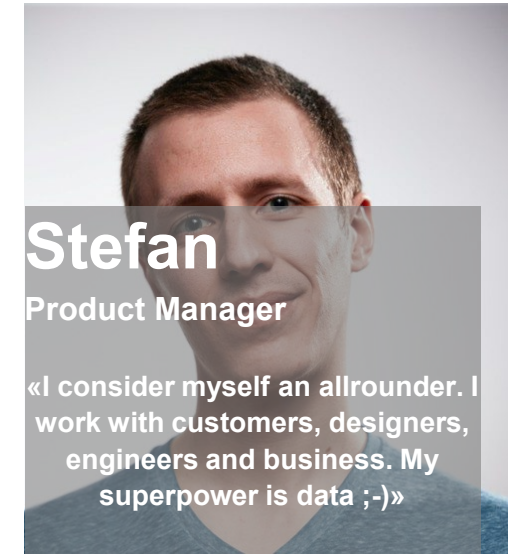
**Daniel**  
Software Engineer

«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»



**Stefan**  
Product Manager

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

# ...and many other professional opportunities

Cybersecurity  
Manager

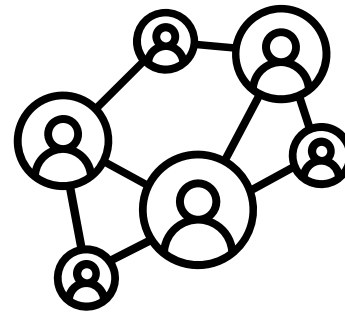
Data Analyst /  
Data Scientist

IT Manager

IS / IT Auditor

IT Account  
Manager

Blockchain Expert



... jobs not even  
invented yet...

IT Entrepreneur



# Endless career opportunities

E.g. [www.jobscout24.ch](http://www.jobscout24.ch), search for

- «Business IT»: **2320 jobs**
- «Information Systems»: **242 jobs**
- «Wirtschaftsinformatik\*»: **1840 jobs**
- «Business Analyst»: **1126 jobs**

**Business Analyst SAP MM (w/m) 80-100%**  
COOP , Basel

**Business Analyst Logistik (w/m)**  
COOP , Basel

**SAP Business Analyst Artikeldaten / PIM (w/m) 80-100%**  
COOP , Basel

**IT-Projektleiter/in Zentrale Dienste**  
Kanton Basel-Stadt Bau- und Verkehrsdepartement , Basel

**IT Manager (m/w/d)**  
Stäubli Electrical Connectors AG, Allschwil , Allschwil

**Agile Coach**  
We make it GmbH , Basel

**Business Analyst/in Senior 80%-100%**  
ictjobs (Stellenmarkt) , Basel

**ERP Business Analyst**  
Manor AG , Basel

**Project Manager (f/m/d)**  
ITech Consult AG , Basel

**Business Unit Controller/in mit IT-Affinität (m/w/d)**  
ROCKEN , Lucerne

**IT Architect (80-100%)**  
Cembra Money Bank , Zurich

**Business Analyst Firmenkunden (m/w/d)**  
ROCKEN , Solothurn

**IT Business Analyst Manufacturing and Logistics**  
LHH , Lausanne

**IT Business Analyst/Project Manager**  
Unilabs , Coppet

**IT Project Manager & Business Analyst**  
MCH Group AG , Basel

**Business & IT-Architekt/in "Digitalisierung" 80 - 100%**  
Valiant Bank AG , Gümliigen

**Business Analyst IT Finance (d/w/m)**  
SV (Schweiz) AG , Dübendorf

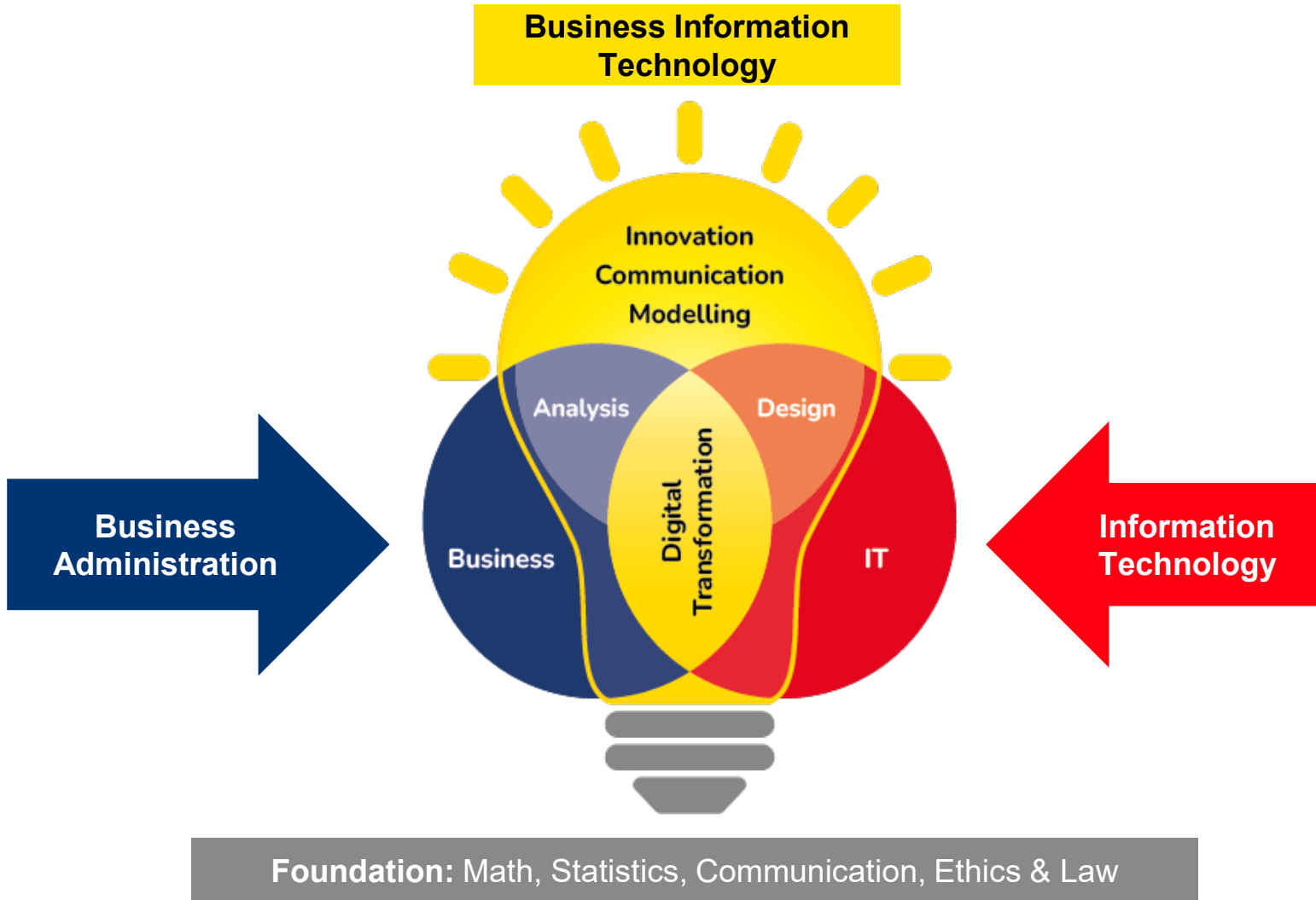
**IT Business Analyst (m/w/d) - Homeoffice**  
essendi it AG , Altdorf UR

**BUSINESS IT CONSULTANT | TECHNICAL CONSULTANT (M/W/D)**  
Senacor FCS GmbH , Zurich

**Business Application Manager mit IT Servicemanagement Verantwortung**  
EAO AG , Olten

**Business Analyst**  
Opacc Software AG , Rothenburg

*Etc. etc. etc.*



**Specialisation:**

- Software Engineering Leadership
- Business Analytics
- Cybersecurity Management
- Digital Business Management

**Student Work:**

- Topics in BIT
- Practical Project
- Bachelor Thesis

**Electives:**

- AI technologies
- Blockchain
- Agile Project Management with Scrum
- User Experience (UX)
- Mobile Apps with Android
- Python
- Consulting
- Entrepreneurship
- Digital Marketing & Analytics
- ...

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

Assessment modules

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



# Specialisations

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

## 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
- Knowledge Management @ BVB
- Success Factors of an Intranet for an International SME-Enterprise



# Semester Abroad

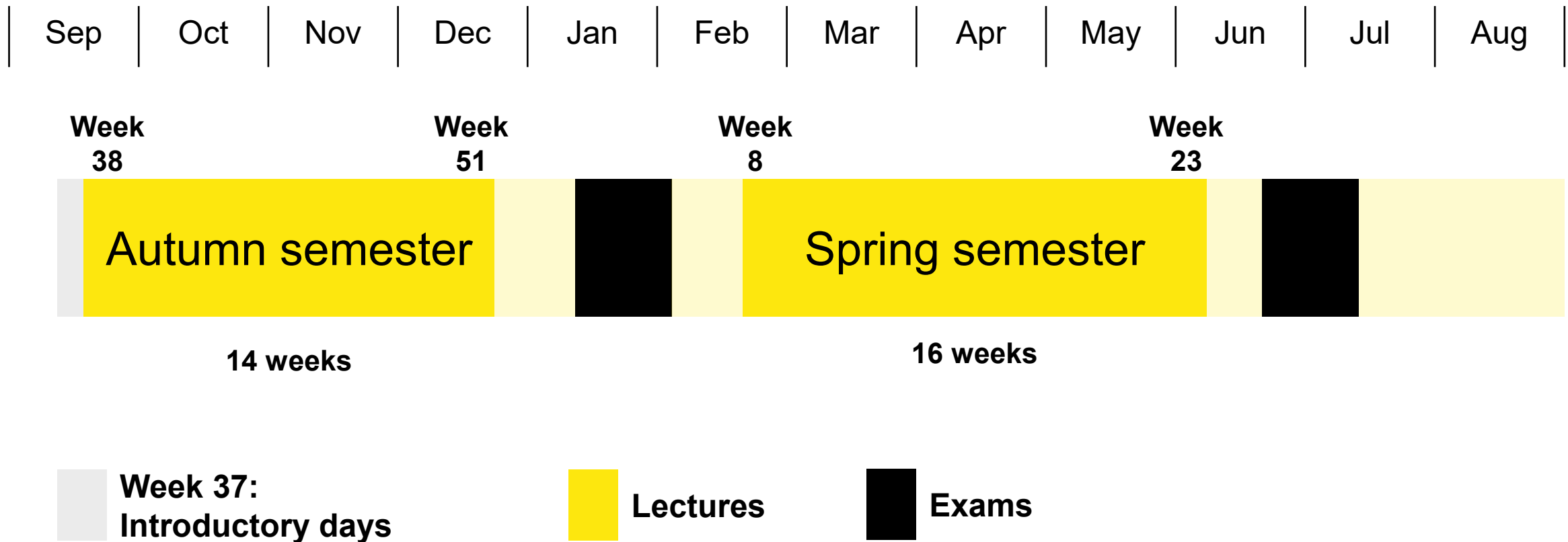
- We foster relationships with partner universities all around the world

## Requirements

- Assessment passed
- Learning agreement



# Academic Year





# General teaching times\*

**in Basel (in English)**

**Full-Time**

	Mon	Tue	Wed	Thu	Fri	Sat
<b>08.15-12.00</b>	Teaching	Teaching	Teaching	Teaching		
<b>13.15-17.00</b>	Teaching	Teaching	Teaching	Teaching		
<b>17.15-21.00</b>						

**Part-Time**

	Mon	Tue	Wed	Thu	Fri	Sat
<b>08.15-12.00</b>						Teaching
<b>13.15-17.00</b>	Teaching		Teaching			
<b>17.15-21.00</b>	Teaching		Teaching			

\*)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
<b>08.15-12.00</b>	■	■	■	■	■	
<b>13.15-17.00</b>	■	■	■	■	■	
<b>17.15-21.00</b>						

## Part-Time

	Mon	Tue	Wed	Thu	Fri	Sat
<b>08.15-12.00</b>				■	■	■
<b>13.15-17.00</b>				■	■	
<b>17.15-21.00</b>						

\*)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 Olten (in German)**

**Full-Time**

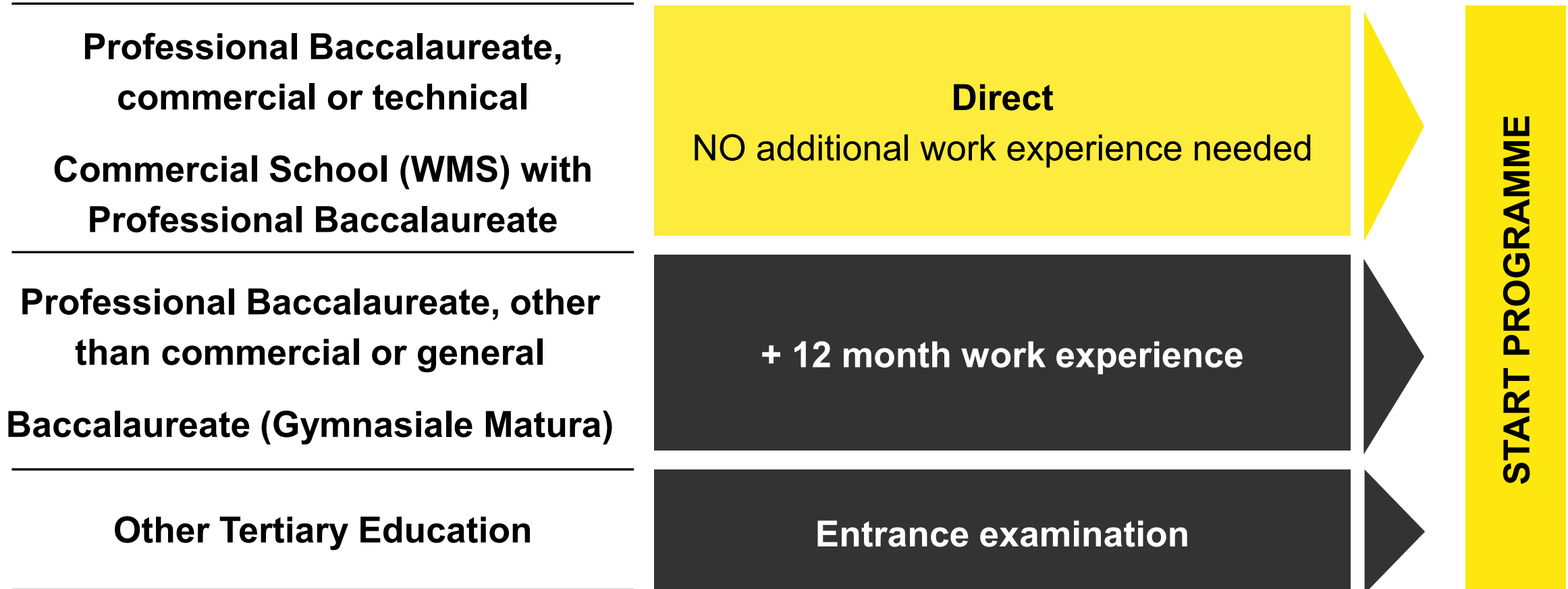
	Mon	Tue	Wed	Thu	Fri	Sat
<b>08.15-12.00</b>	█	█	█	█	█	
<b>13.15-17.00</b>	█	█	█	█	█	
<b>17.15-21.00</b>						

**Part-Time**

	Mon	Tue	Wed	Thu	Fri	Sat
<b>08.15-12.00</b>					█	█
<b>13.15-17.00</b>					█	
<b>17.15-21.00</b>		█				

\*)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.

# Admission



# 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](mailto:admission.business@fhnw.ch)



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

# Links for online Applications

## 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](https://fhnw.ch/study-bit)



**Programme Head:**  
Prof. Dr. Michael Pülz (Basel, Brugg-Windisch)

## BSc Wirtschaftsinformatik

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

Jetzt anmelden!  
[fhnw.ch/wi-studieren](https://fhnw.ch/wi-studieren)

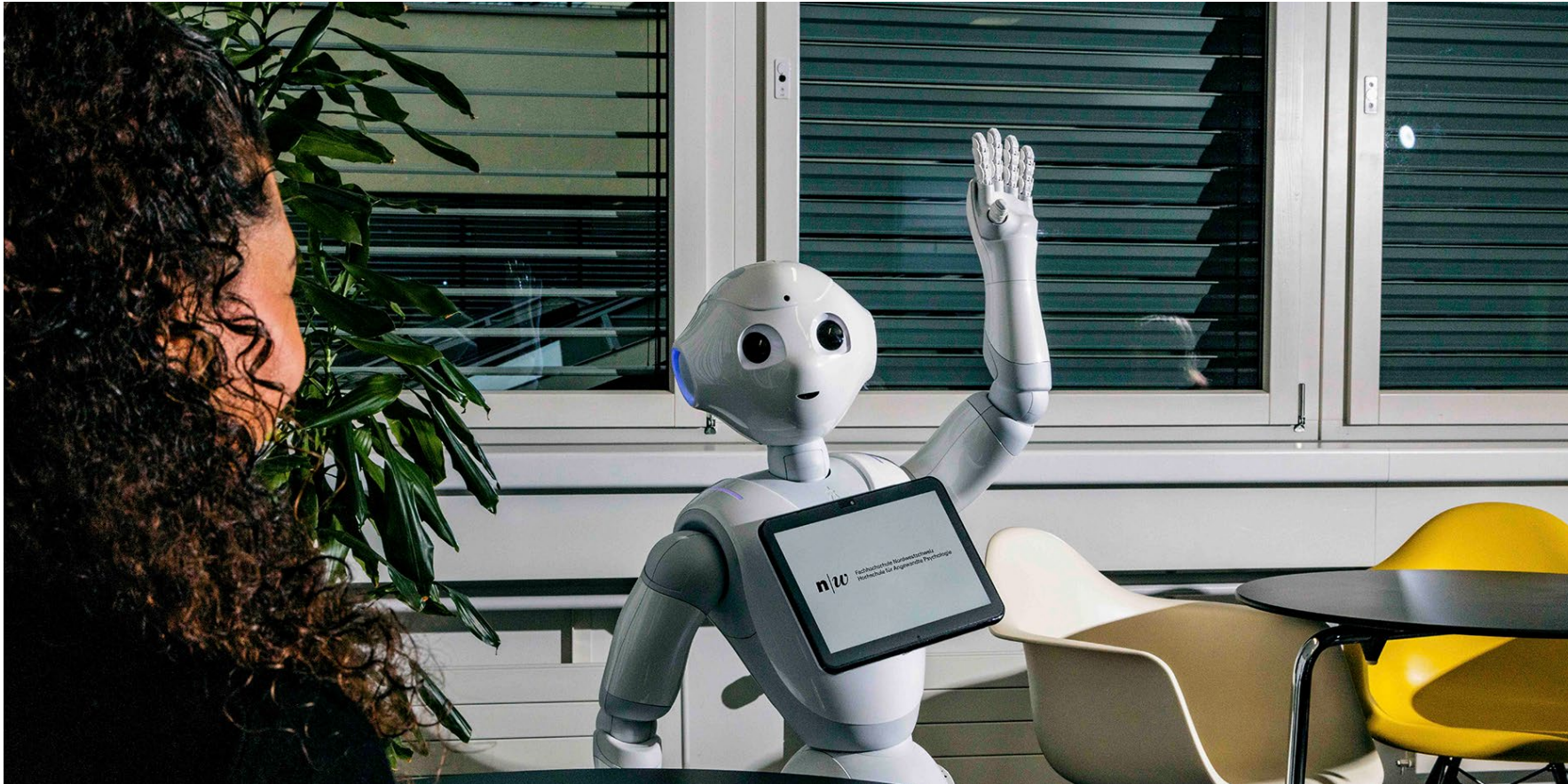


**Studiengangleitung:**  
Prof. Andreas Reber (Olten)

**Please note:**

Please register through the **programme specific link**. Programmes that are offered in English and German count as **two separate programmes**.

# Q&A session



# THANK YOU and SEE YOU SOON at our school !

