

Bachelor of Science in Business Information Technology «BIT»

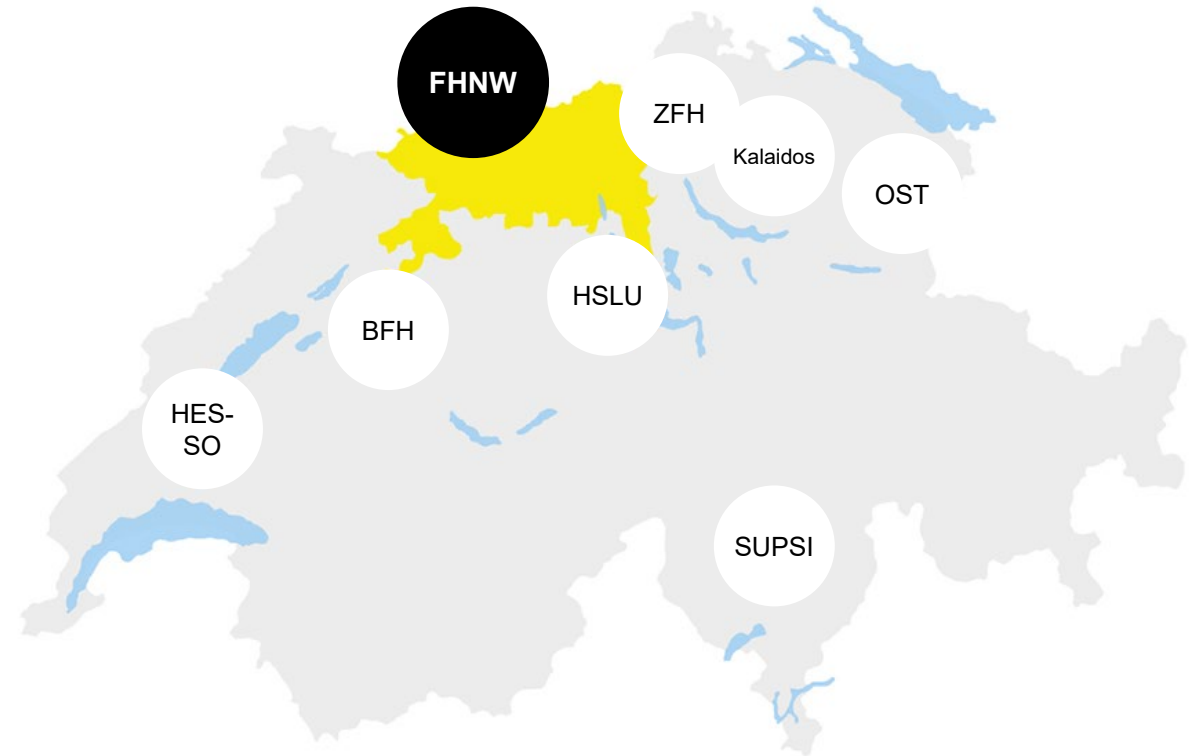
Prof. Dr. Michael Pütz

23 April 2024



Swiss Universities of Applied Sciences

FHNW	Fachhochschule Nordwestschweiz
ZFH	Zürcher Fachhochschule
HES-SO	Haute école spécialisée de Suisse occidentale
HSLU	Hochschule Luzern
BFH	Berner Fachhochschule
OST	Ostschweizer Fachhochschule
SUPSI	Scuola universitaria professionale della Svizzera italiana
Kalaidos	Kalaidos Fachhochschule (privat)



FHNW

10'780

Bachelor students

2'549

Master students

School of Applied Psychology

School of Architecture, Construction and Geomatics

Basel Academy of Art and Design

School of Business

School of Education

School of Engineering

School of Life Sciences

Basel Academy of Music

School of Social Work

Starting 2025: HSI (School of Informatics)



Our mission

“We educate innovative, responsible specialists and managers for an interconnected and ever-changing world.”

FHNW School of Business

7 **Degree programmes**
in the fields of management
or business information systems

5 **International Student Projects**
In China, India, ASEAN,
North and South America

3 **Study modes**
Full-time, part-time or
combi study track
(on-site/online)

500 **Student projects**
Solutions for companies and
organisations

3 **Campuses**
Basel, Olten and
Brugg-Windisch

86 **Faculty lecturers
and professors**

Our Bachelor Programmes

**Tuition
language
German**

Wirtschaftsrecht

Campus: Brugg-Windisch

fhnw.ch/wirtschaftsrecht-studieren

Business Artificial Intelligence

Campus: Olten

fhnw.ch/bai-studieren

Betriebsökonomie

**Campus: Basel,
Brugg-Windisch or Olten**

fhnw.ch/boek-studieren

Wirtschaftsinformatik

Campus: Olten

fhnw.ch/wi-studieren



Our Bachelor Programmes

**Business Administration
(International Management)**

**Campus:
Brugg-Windisch or Olten**

fhnw.ch/study-im

**Business Information
Technology**

**Campus:
Basel or Brugg-Windisch**

fhnw.ch/study-bit

**International Business
Management (trinational)**

**Campus:
Basel, Colmar and Lörrach**

fhnw.ch/study-ibm

BIT Team – who we are



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BSc in Business Information Technology

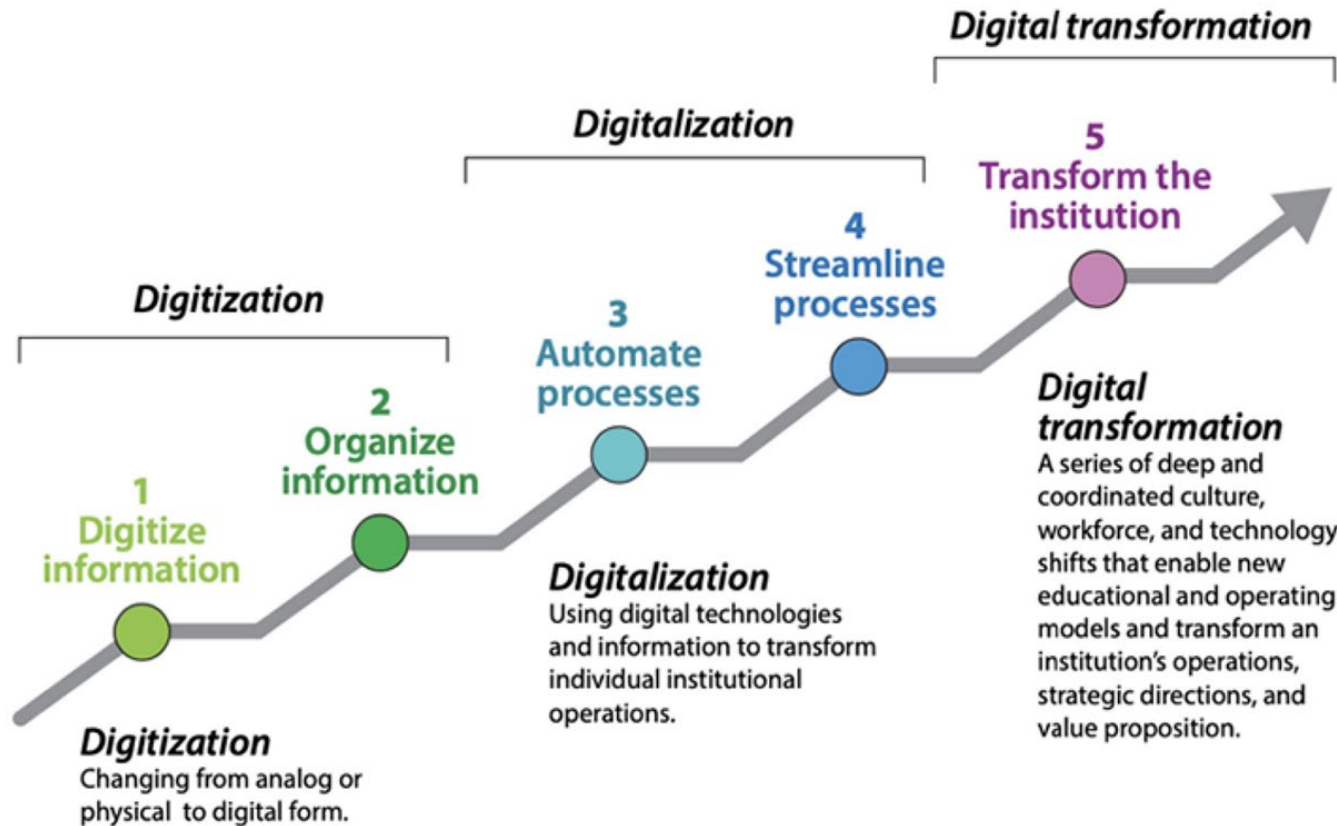


- Play an active role in shaping **digital transformation**
- Be the bridge between **business** and **information technology**
- Study in an **English-speaking international** environment

Register now!
www.fhnw.ch/study-bit



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»



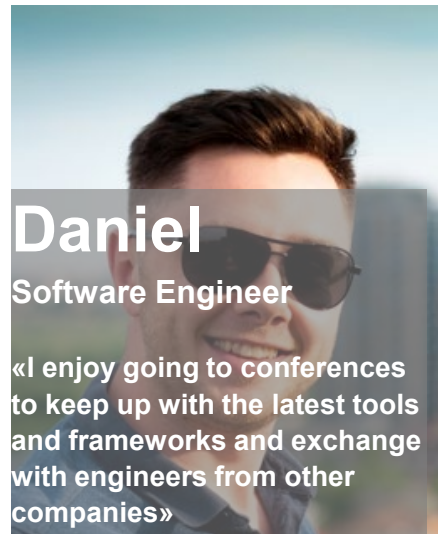
Martina
Requirements Engineer /UX Designer

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



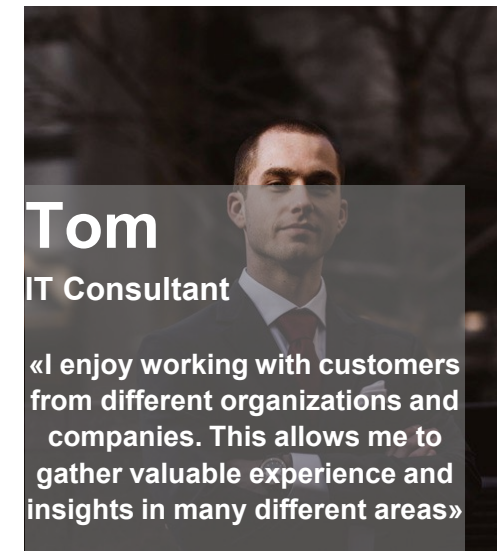
Sophia
Business Analyst

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



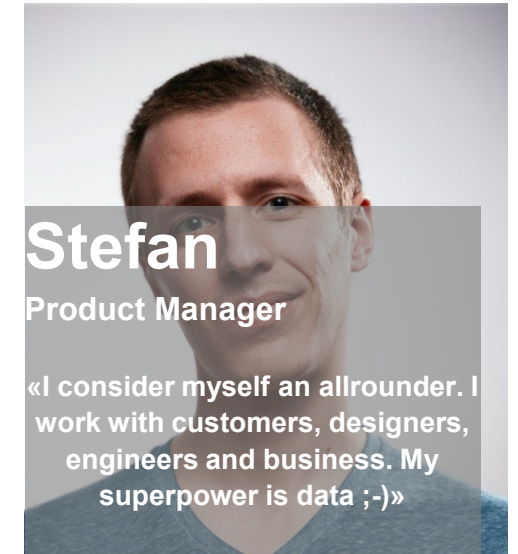
Daniel
Software Engineer

«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

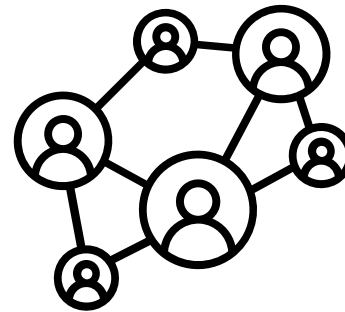
Cybersecurity
Manager

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, 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

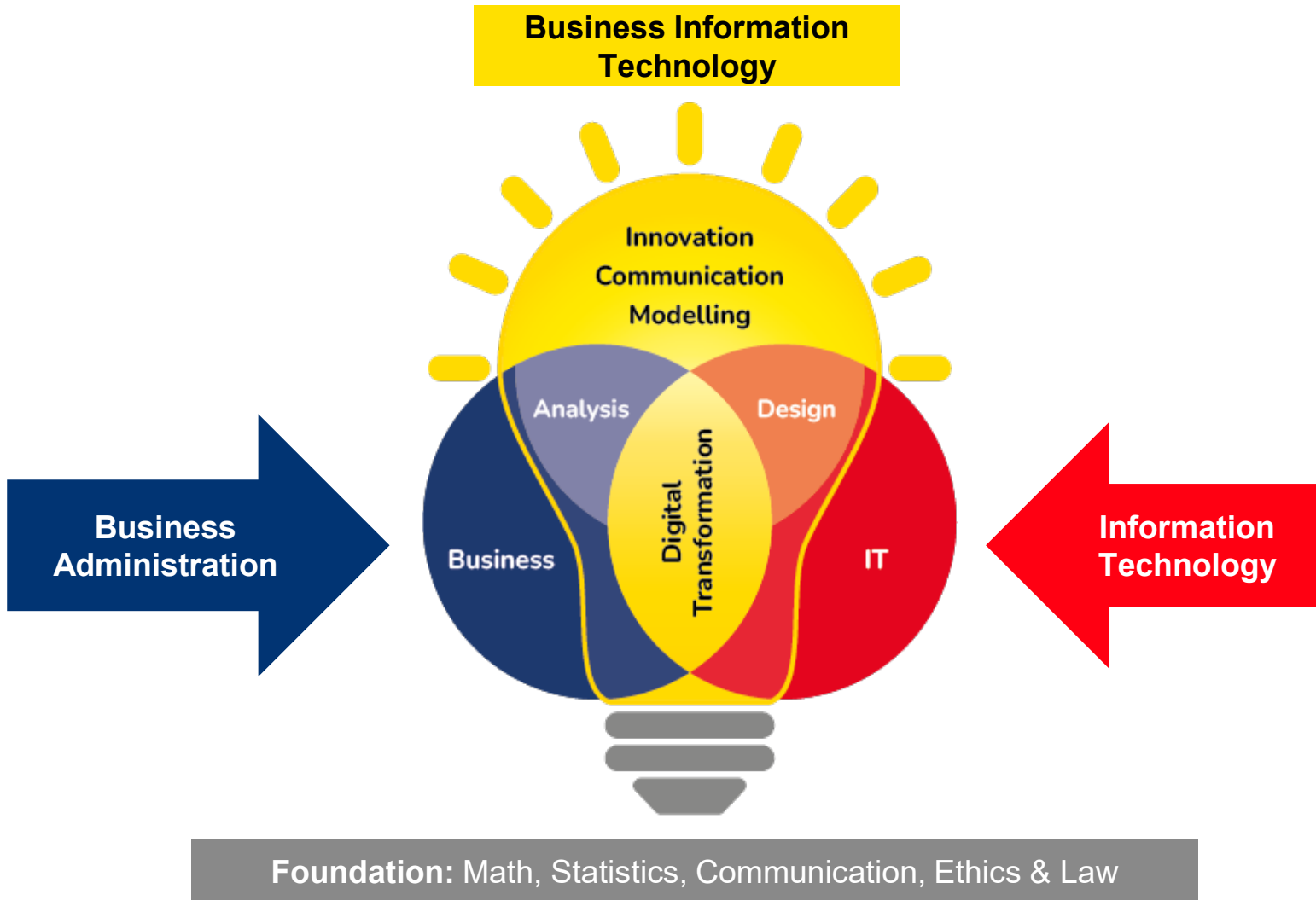
IT Business Analyst (m/w/d) - Homeoffice
essendi it AG , Altdorf UR

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
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 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
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	
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 Architecture	Technical focus
	Software Engineering	IT-Project	
Business Analytics	Machine Learning with Python	Time Series Analysis with R	Analytical focus
	Big-, Semi- and Unstructured Data	Analytics Project	
Cybersecurity Management	Strategic Digital Management	Cyber Resilience	Risk focus
	Data Privacy	Information Systems Auditing	
Digital Business Management	Digital Innovation & Design Thinking	Cyber Resilience	Management focus
	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

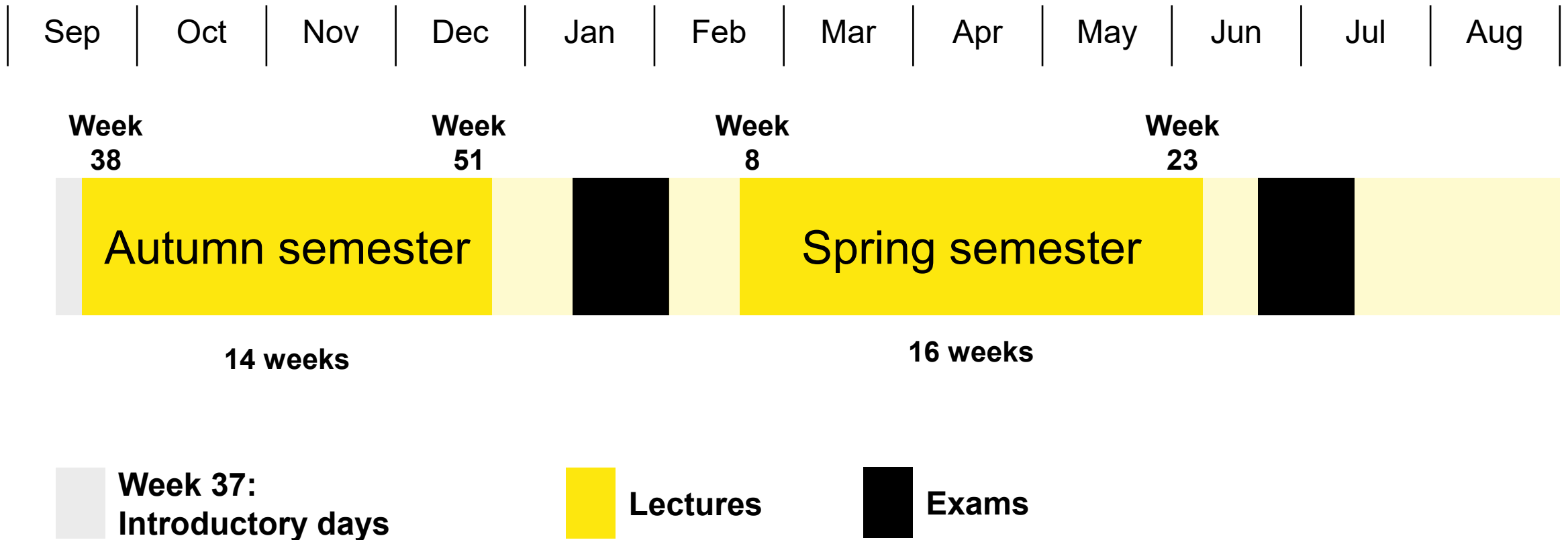
- We foster relationships with partner universities all around the world

Requirements

- Assessment passed
- Learning agreement



Academic Year



General teaching times*

in Basel (in English)

Full-Time

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

Part-Time

	Mon	Tue	Wed	Thu	Fri	Sat
08.15-12.00						Teaching
13.15-17.00	Teaching		Teaching			
17.15-21.00	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
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 Olten (in German)

Full-Time

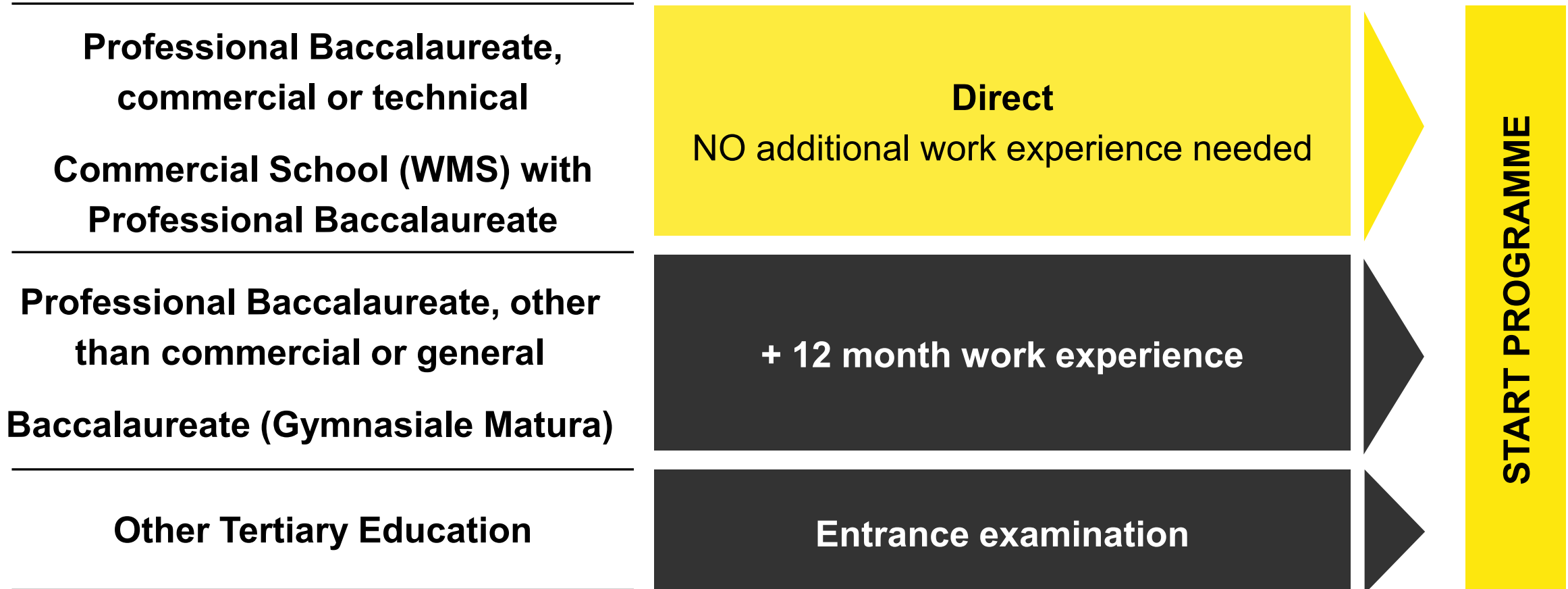
	Mon	Tue	Wed	Thu	Fri	Sat
08.15-12.00	█	█	█	█	█	
13.15-17.00	█	█	█	█	█	
17.15-21.00						

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 (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



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



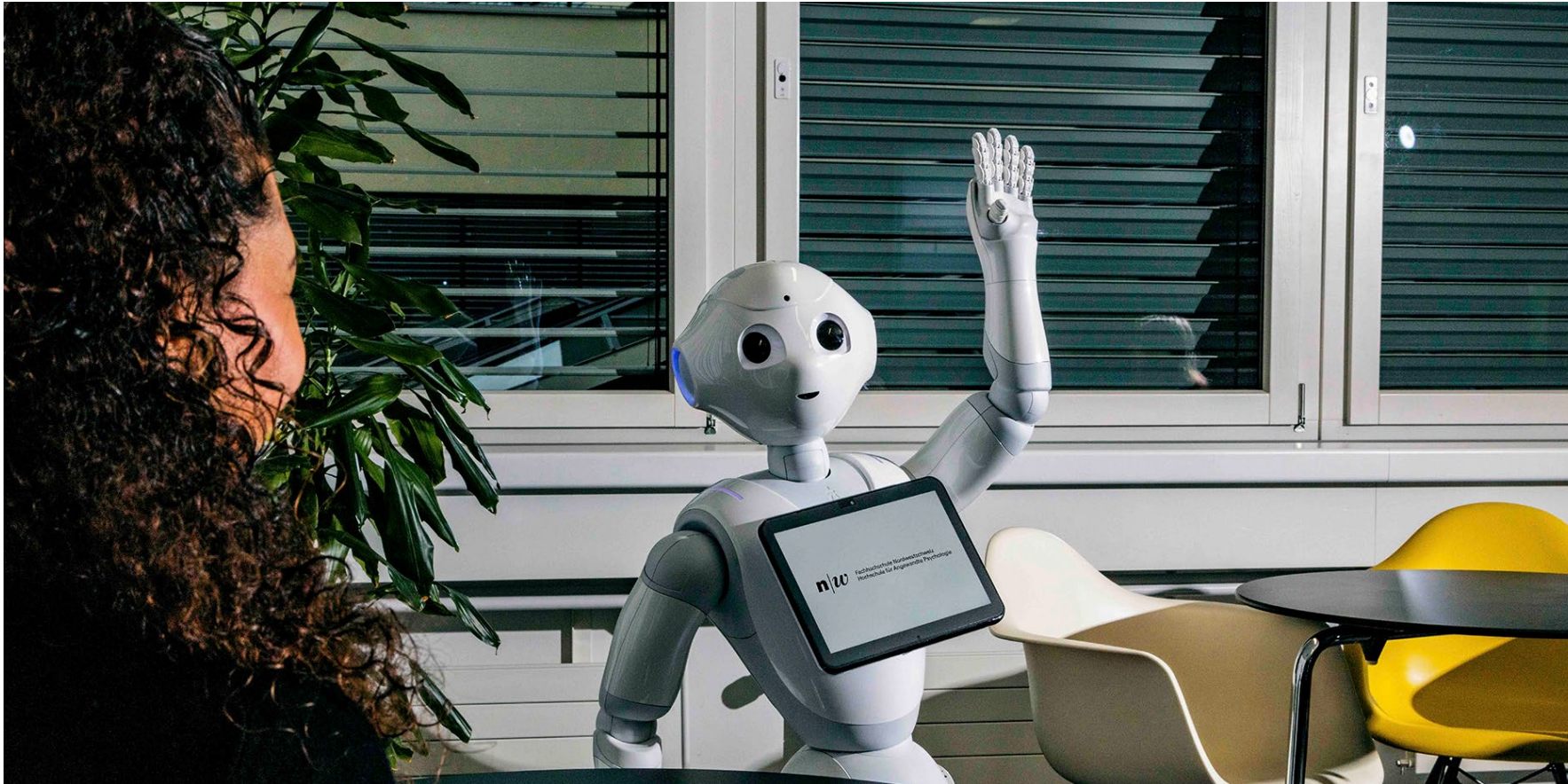
Programme Head:

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

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 !

