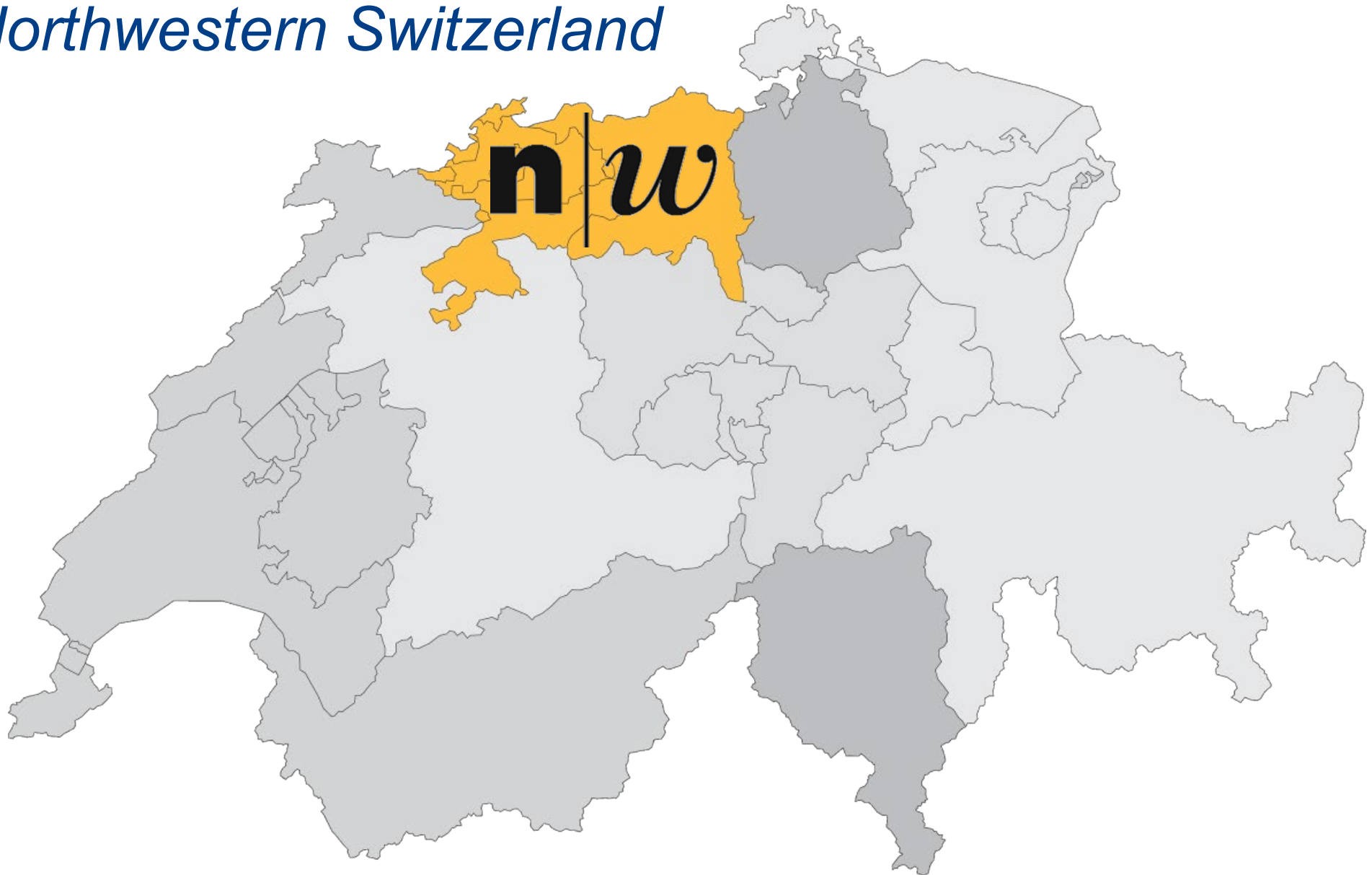


MSc Business Information Systems

*FHNW University of Applied Sciences and Arts Northwestern Switzerland
Prof. Knut Hinkelmann, Head of Programme*



FHNW University of Applied Sciences and Arts Northwestern Switzerland



Four Campuses – 9 Schools – 12'500 Students



1. School of Applied Psychology
2. School of Architecture, Civil Engineering and Geomatics
3. School of Business
4. School of Education



5. School of Engineering
6. School of Life Sciences
7. School of Social Work
8. Academy of Art and Design
9. Academy of Music





AACSB
ACCREDITED

Mission Statement of the School of Business FHNW

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

FHNW School of Business - Degree Courses

■ Bachelor of Science

- ◆ Business Administration / International Management (d/e)
- ◆ International Business Management (trinalational) (d/e/f)
- ◆ Business Information Technology (d/e)
- ◆ Business Artificial Intelligence (d)

■ Master of Science

◆ Business Information Systems

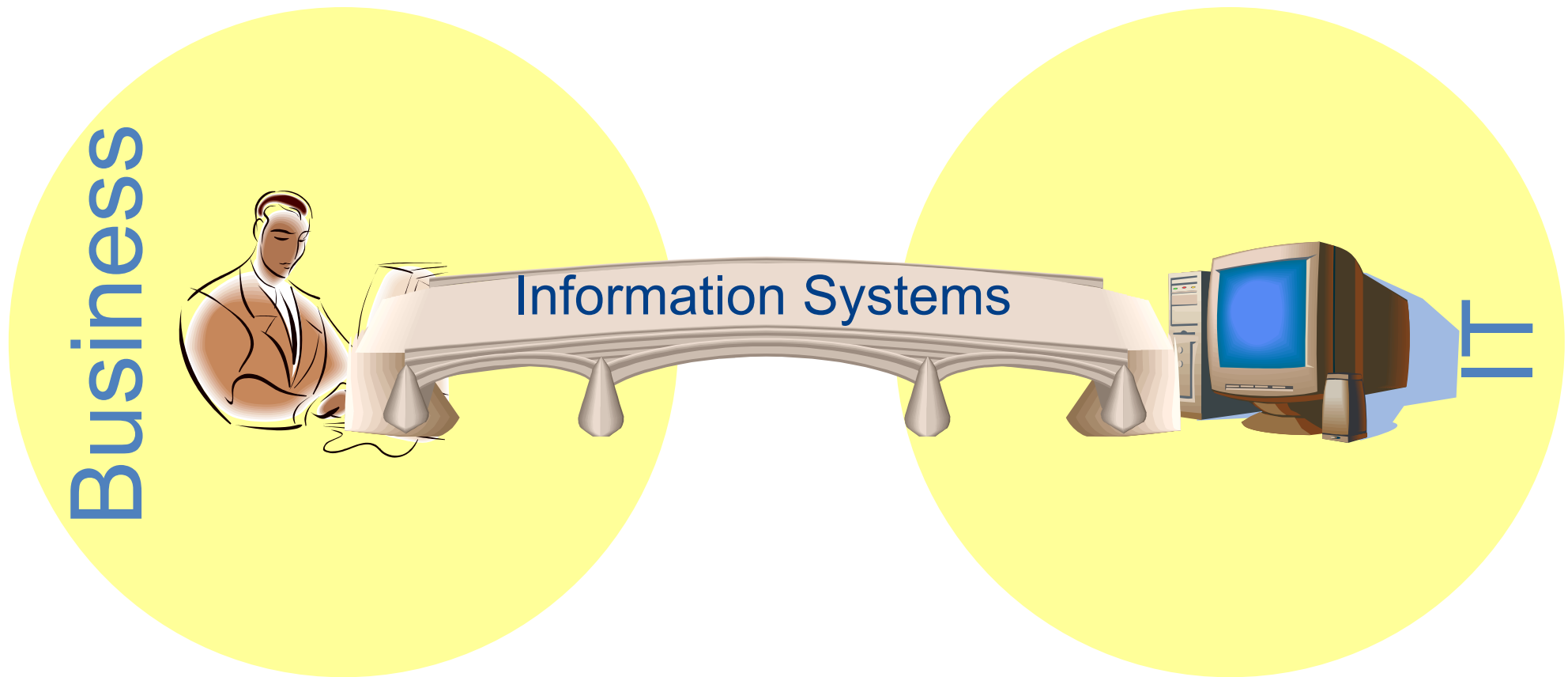
- ◆ International Management
- ◆ Sustainable Business Development (trinalational)

■ Advanced Studies

- ◆ <MAS, DAS, CAS, courses, seminars>



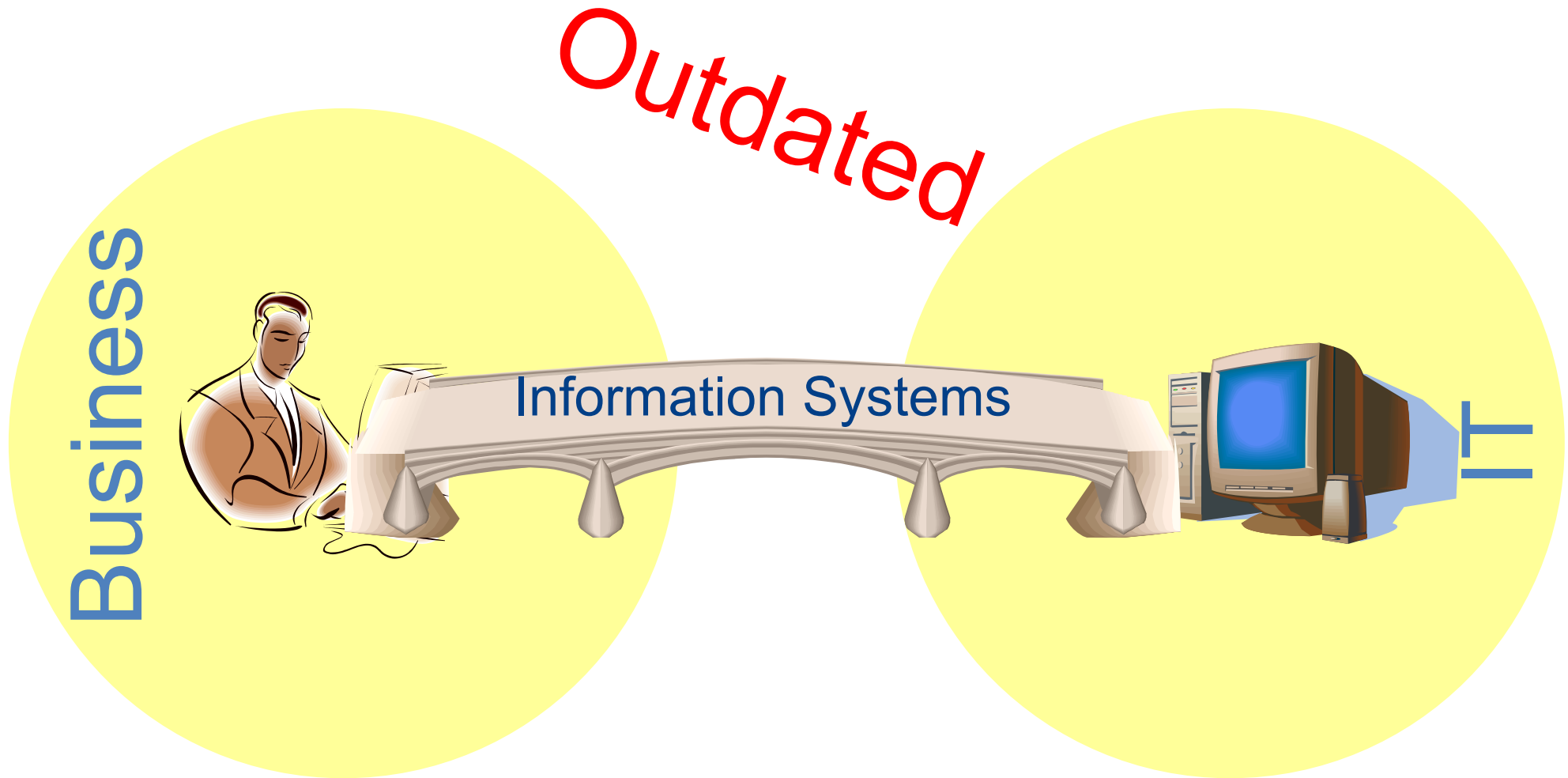
Business Information Systems: Building Bridge between Business and IT





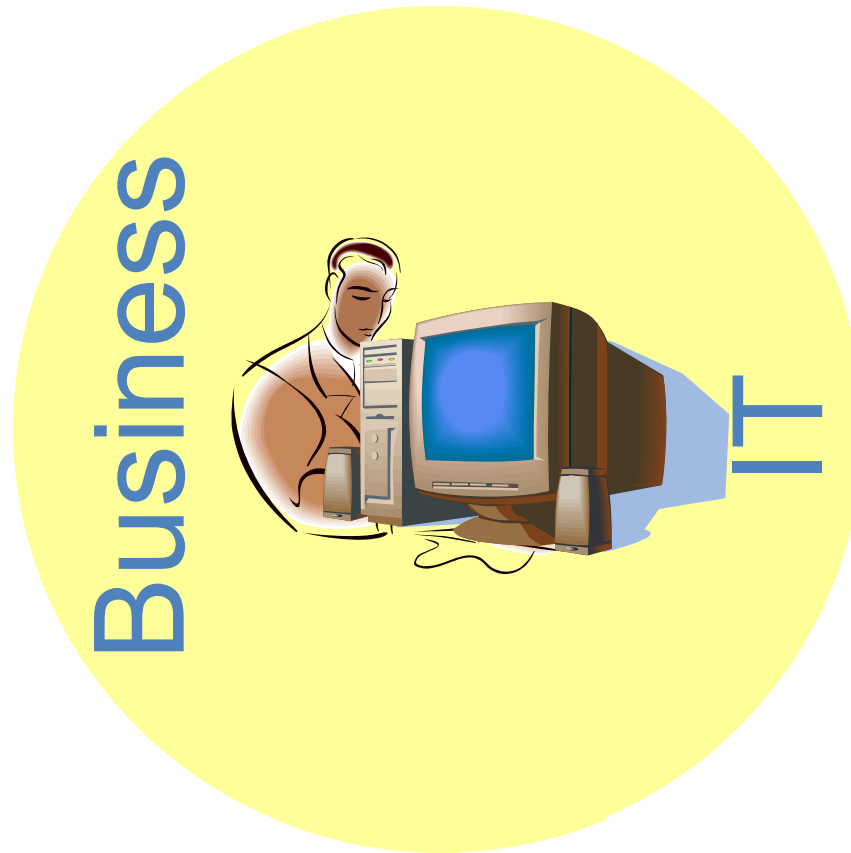
“Maybe I should’ve been more clear when I said I wanted to build a bridge between business and IT.”

Business Information Systems: Building Bridge between Business and IT

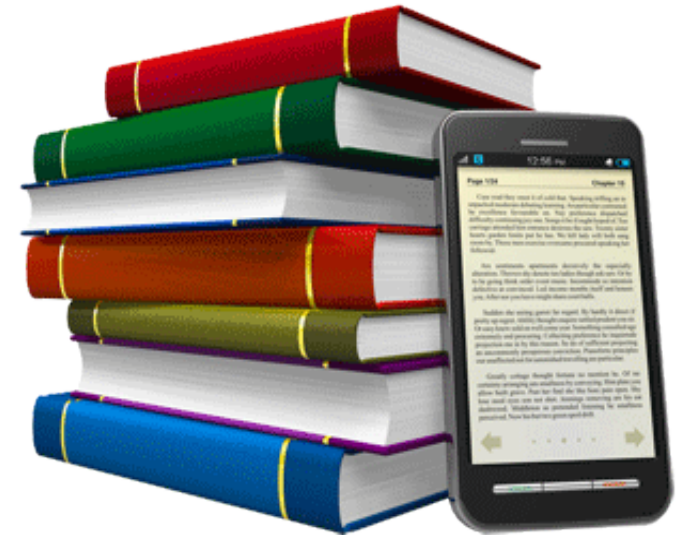


Business Information Systems: Merging Business and IT

New



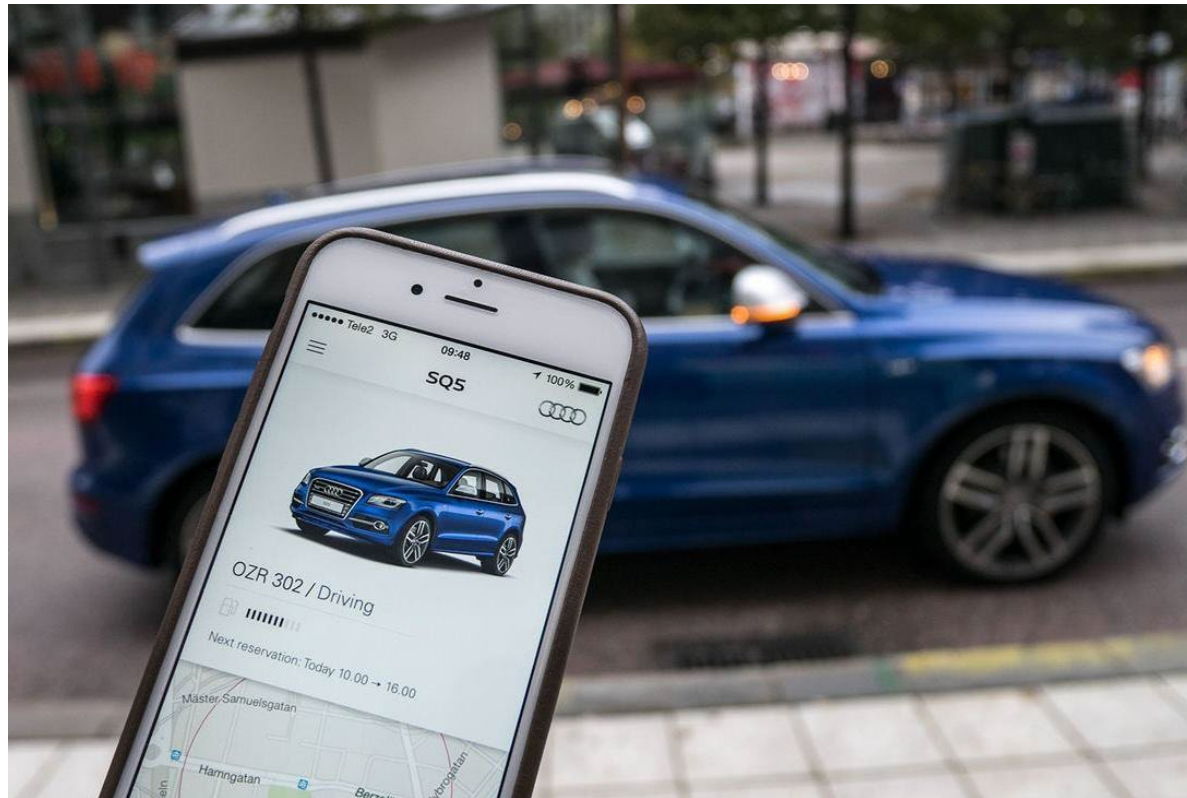
Digitalisation of Products



3D Print



Digital Business



- Obtaining performance instead of a product
 - ◆ ... as a Service
 - ◆ Platform
 - ◆ Rental
 - ◆ Sharing
 - ◆ Multi-sided business

In the near future there won't be something like a non-digital economy anymore

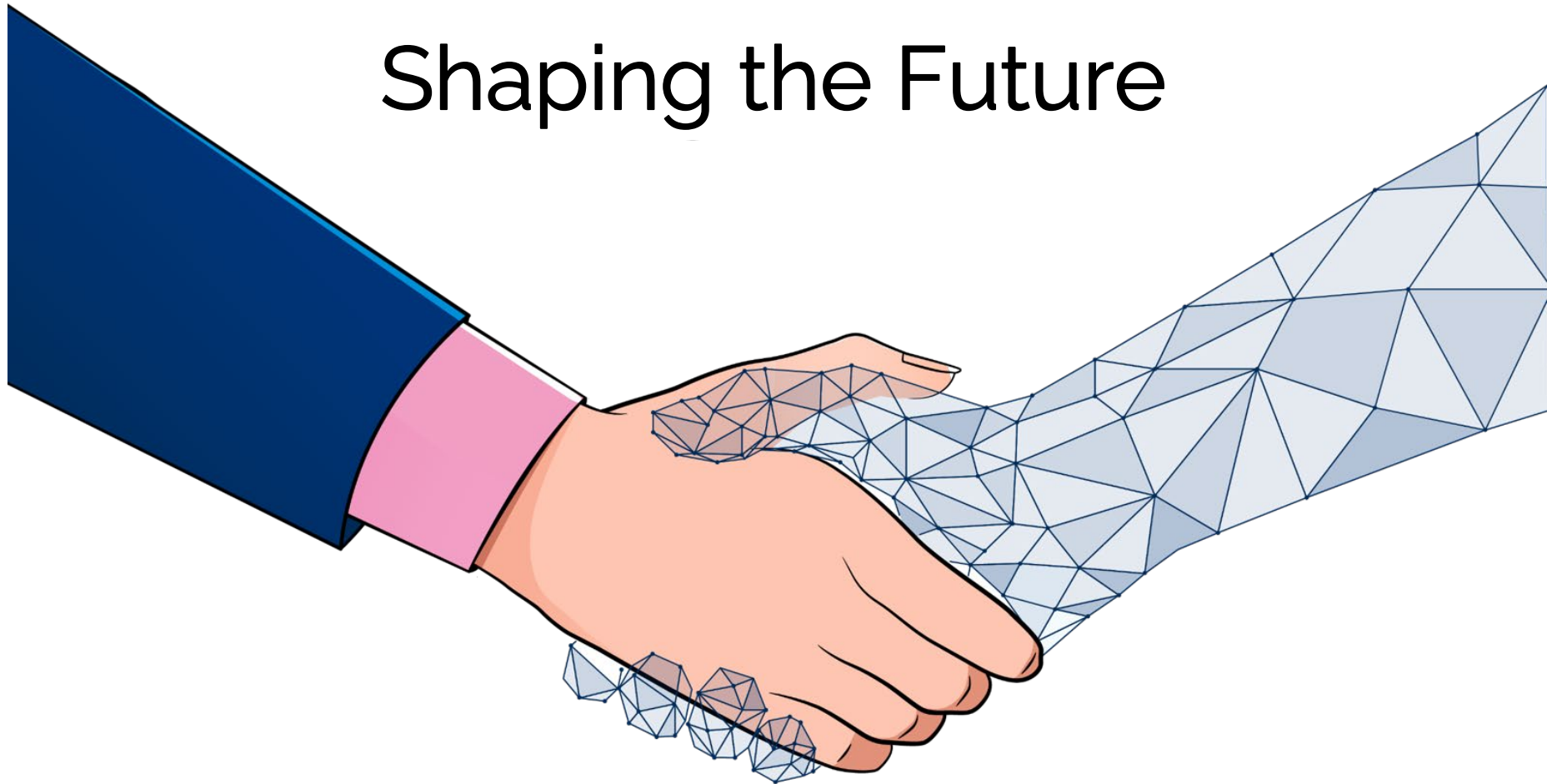


© Kurhan - Fotolia.com



<http://kanzleilife.de/it-infrastruktur-einfach-wie-fahrzeugleasing/>

Shaping the Future

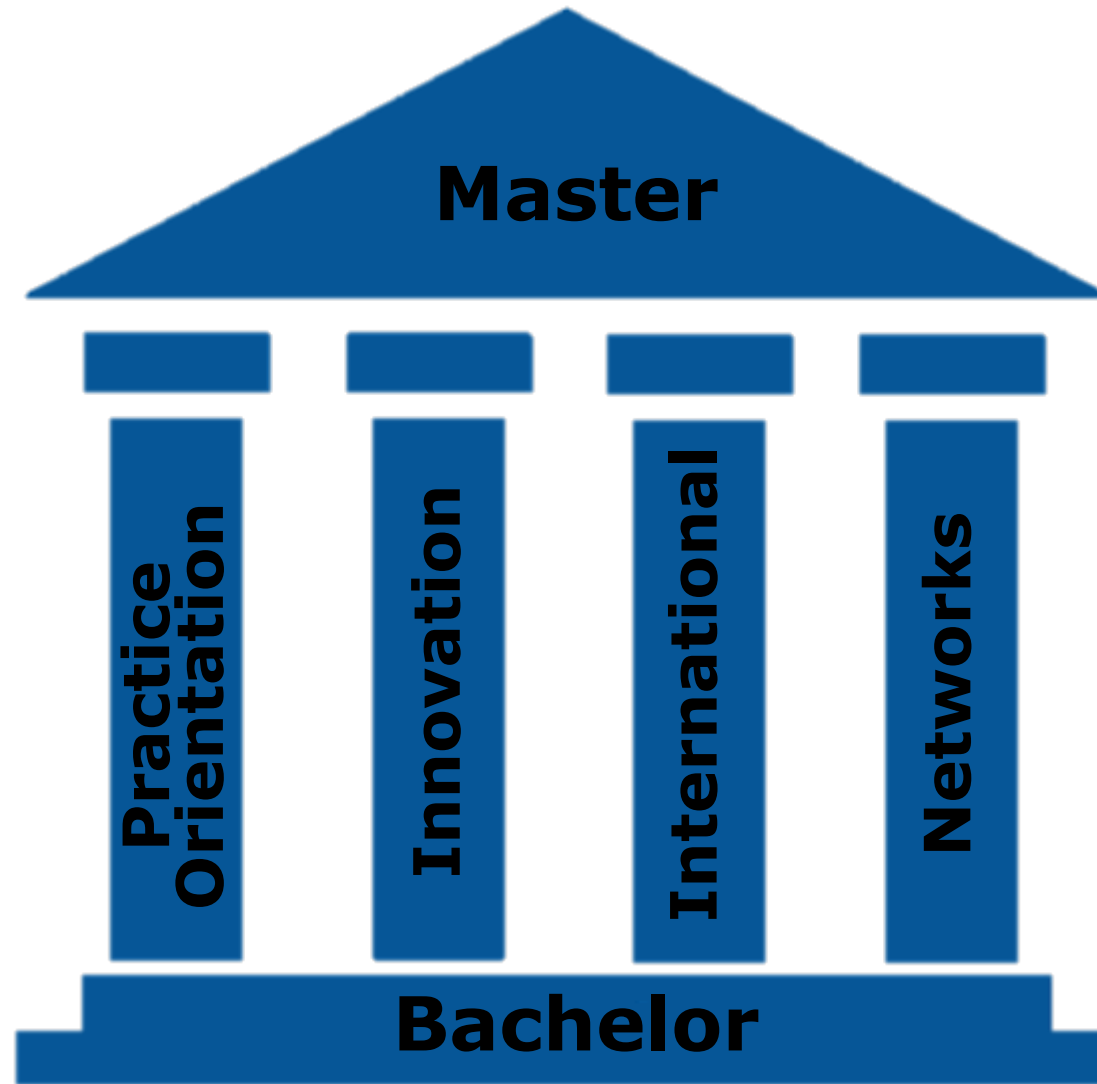


Master of Science in
Business Information Systems

Learning Objective

***Learn to innovate in
the Digital Economy***

Profile



Objectives of the Programme

- Exploitation of information systems for business success
- Preparation for the (global) job market
- Special focus on important business challenges
- Go beyond current state of practice: Graduates are able
 - ◆ to drive innovation
 - ◆ to cope with increasingly dynamic environment

Curriculum 1/3 – Core Modules

| Core Modules | ECTS |
|-------------------------------|------|
| Alignment of Business and IT | 6 |
| Business Process Management | 6 |
| Business Intelligence | 6 |
| Strategic Business Innovation | 6 |

Curriculum 2/3 – Research

| Innovation and Research | ECTS |
|--|-------------|
| Research Methods for Information Systems | 6 |
| Master Thesis Proposal | 6 |
| Master Thesis | 18 |

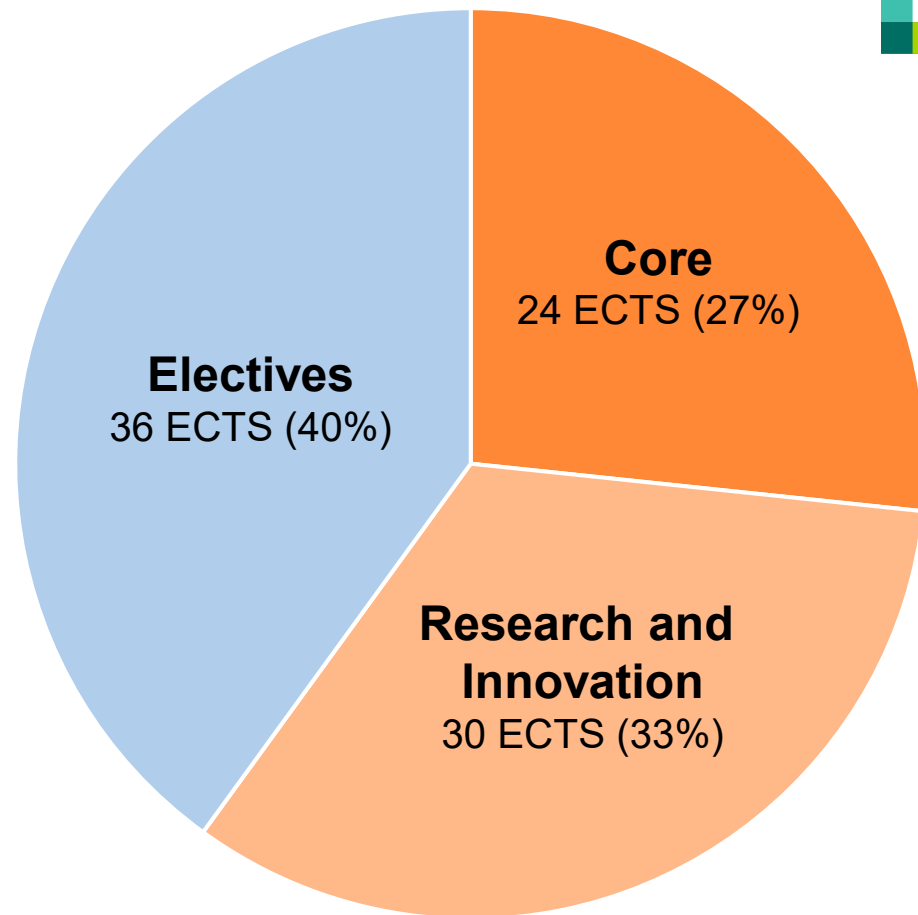
Curriculum 3/3 - Electives

| Electives | ECTS |
|--|------|
| Artificial Intelligence for Business Processes | 6 |
| Applied Computational Intelligence | 6 |
| Agile Business Analysis | 6 |
| Business Analytics: Quantitative Methods | 6 |
| Challenging International Managers and Leaders | 6 |
| Cloud Computing | 6 |
| Cyber Security and Cyber Resilience | 6 |
| Data Governance and Information Management | 6 |
| Data Science | 6 |
| Digitalization of Business Processes | 6 |
| E-Business and Mobile Business | 6 |
| Emerging Topics for Business Information Systems | 6 |
| Innovation in the Digital Age | 6 |
| International Field Trip | 6 |
| IT Governance, Risk and Compliance | 6 |
| Knowledge Processing and Decision Making | 6 |
| Lean Entrepreneurship | 6 |
| Managing IT in a Digitized World | 6 |
| Model-Based Design of Cyber-Physical Solutions | 6 |
| Qualitative Decision Making and Knowledge Management | 6 |
| Supply Chain Management | 6 |
| (Independent Learning Module) | 6 |

| Electives from MSc Medical Informatics | ECTS |
|---|------|
| Digital Transformation in Healthcare | 6 |
| Artificial Intelligence in Drug Discovery | 3 |
| Machine Learning in Personalized Medicine | 3 |
| Human Machine Interaction and Bias Mitigation | 3 |

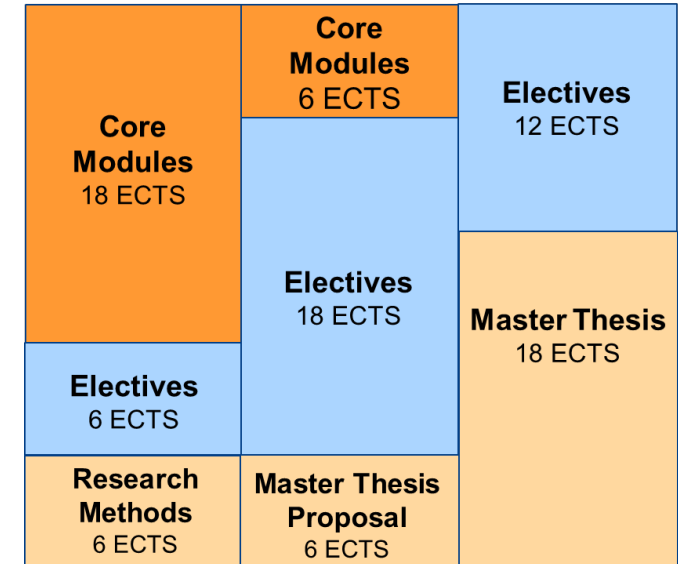
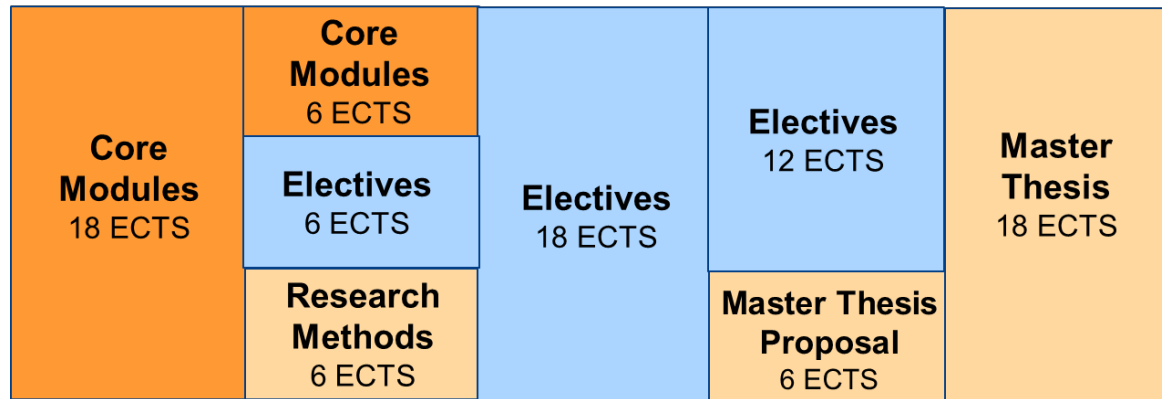


Individual Study Design



- Only 24 ECTS for core modules are fixed
- 36 ECTS can be chosen, 6 out of 22 electives
- 30 ECTS for Master Thesis and research project

Flexibility: full-time - part-time - any-time



- Possibility to switch between full-time and part-time
- Duration can be adapted to individual requirements
- Free when to do which core/elective module
- Two intakes per year
 - ◆ February
 - ◆ September

Schedule Spring Semester 2024

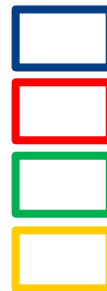
Core Modules are divided into 2 groups

| | 8.15 | 9.00 | 10.00 | 11.00 | 12.00 | 13.00 | 14.00 | 15.00 | 16.00 | 17.00 | 18.00 | 19.00 | 20.00 | 21.00 |
|---------------------|---|------|-------|-------|-------|---|-------|-------|-------|--|-------|-------|-------|-------|
| | | | | | | 13.15 Business Intelligence, Group A Witschel Hans-Friedrich 17.00 | | | | | | | | |
| | | | | | | 13.15 Digitalization of Business Processes Martin Andreas Spahic Maja Laurenzi Emanuele 17.00 | | | | | | | | |
| | | | | | | 13.15 Artificial Intelligence in Drug Discovery Not Named 17.00 | | | | | | | | |
| Wednesday. | 8.15 Applied Computational Intelligence Domberger Rolf Hanne Thomas 12.00 | | | | | 13.15 Business Analytics: Quantitative Methods Helmsch Fabian Hanne Thomas Sterchi Martin 17.00 | | | | 17.15 Cyber Security and Cyber Resilience, Group A Asprion Petra Scherb Christopher Grimberg Frank 21.00 | | | | |
| | | | | | | 13.15 Agile Business Analysis Telesko Rainer Spahic Maja 17.00 | | | | 17.15 Business Process Management, Group B Schmiedel Theresa Makni Christophe Spahic Maja Hinkelmann Knut 21.00 | | | | |
| Thursday 2. | 8.15 Business Process Management, Group A Schmiedel Theresa Spahic Maja Hinkelmann Knut 12.00 | | | | | 13.15 Knowledge Processing and Decision Making Wache Holger Laurenzi Emanuele 17.00 | | | | 17.15 Research Methods for Information Systems, Group B Schlick Sandra Hanne Thomas Hinkelmann Knut 21.00 | | | | |
| | 8.15 Cloud Computing Gatzliu Grivas Stella Giovannoli Claudio 12.00 | | | | | 13.15 Research Methods for Information Systems, Group A Schlick Sandra Hanne Thomas Hinkelmann Knut 17.00 | | | | | | | | |
| Friday 23.2. | 8.15 Strategic Business Innovation, Group A Schwaferts Dino Eisenhart Barbara 12.00 | | | | | 13.15 Strategic Business Innovation, Group B Schwaferts Dino Eisenhart Barbara 17.00 | | | | | | | | |
| | 8.15 E-Business and Mobile Business Leimstoll Uwe Korkut Safak 12.00 | | | | | 13.15 Business Intelligence, Group B Witschel Hans-Friedrich 17.00 | | | | | | | | |
| | 8.15 Alignment of Business and IT, Group B Hinkelmann Knut Montecchiari David 12.00 | | | | | 13.15 Model-Based Design of Cyber-Physical Solutions Hinkelmann Knut Laurenzi Emanuele 17.00 | | | | | | | | |
| Saturday 24. | 8.15 Alignment of Business and IT, Group A Hinkelmann Knut Montecchiari David 12.00 | | | | | | | | | | | | | |
| | 8.15 Managing IT in a Digitized World Pilorget Lionel 12.00 | | | | | | | | | | | | | |

Schedule Autumn Semester 2024

Core Modules are divided into 2 groups

| | 8.15 | 9.00 | 10.00 | 11.00 | 12.00 | 13.00 | 14.00 | 15.00 | 16.00 |
|------------------|---|------|-------|-------|-------|---|-------|-------|-------|
| Monday | | | | | | | | | |
| Tuesday | 8.15 Data Science Wache Holger Wilke Gwendolin 12.00 | | | | | 13.15 Business Intelligence, Group A Witschel Hans-Friedrich 17.00 | | | |
| | | | | | | 13.15 Artificial Intelligence for Business Processes Martin Andreas Pande Charuta Spahic Maja Laurenzi Emanuele 17.00 | | | |
| Wednesday | 8.15 Research Methods for Information Systems, Group B Schlick Sandra Afonina Valeria 12.00 | | | | | 13.15 IT Governance, Risk and Compliance Asprion Petra Grimberg Frank 17.00 | | | |
| | 8.15 Supply Chain Management Ehrenthal Joachim 12.00 | | | | | 13.15 Alignment of Business and IT, Group A Hinkelmann Knut Montecchiari Devid 17.00 | | | |
| | 8.30 Digital Transformation in Healthcare Miho Enkelejda 12.15 | | | | | 13.15 Alignment of Business and IT, Group B Hinkelmann Knut 17.00 | | | |
| Thursday | 8.15 Lean Entrepreneurship Freilburghaus Teresa Perrett Pieter 12.00 | | | | | 13.15 Agile Business Analysis Spahic Maja 17.00 | | | |
| | 8.15 Business Process Management, Group B Schmiedel Theresa Spahic Maja 12.00 | | | | | 13.30 Digitalization of Business Processes in Healthcare Martin Andreas 17.15 | | | |
| Friday | 8.15 Qualitative Decision Making and Knowledge Management 12.00 | | | | | 13.15 Innovation in the Digital Age Laurenzi Emanuele Hinkelmann Knut 17.00 | | | |
| | 8.15 Strategic Business Innovation, Group B 12.00 | | | | | 13.15 Business Intelligence, Group B Witschel Hans-Friedrich 17.00 | | | |
| | 8.15 Research Methods for Information Systems, Group A 12.00 | | | | | | | | |
| | 8.30 Machine Learning in Medicine 12.15 | | | | | | | | |
| Saturday | 8.15 Challenging International Managers and Leaders, Group B von Kutzschenbach Michael 12.00 | | | | | 13.15 Strategic Business Innovation, Group A Schwaferts Dino von Kutzschenbach Michael 17.00 | | | |
| | 8.15 Business Process Management, Group A Spahic Maja 12.00 | | | | | 13.15 Data Governance and Information Management Pillorget Lionel 17.00 | | | |
| | 8.15 Challenging International Managers and Leaders, Group A von Kutzschenbach Michael 12.00 | | | | | | | | |



= Core Modules



Module Descriptions

<https://modulbeschreibungen.webapps.fhnw.ch/>

| n w Fachhochschule Nordwestschweiz Modulbeschreibungen | |
|--|--|
| Agile Business Analysis | |
| Alignment of Business and IT | |
| Applied Computational Intelligence | |
| Business Analytics: Quantitative Methods | |
| Business Intelligence | |
| Business Process Management | |
| Cloud Computing | |
| Cyber Security and Cyber Resilience | |
| Digitalization of Business Processes | |
| E-Business and Mobile Business | |
| Emerging Topics for Business Information Systems | |
| Knowledge Processing and Decision Making | |
| Managing IT in a Digitized World | |
| Model-based Design of Cyber-Physical Solutions | |
| Research Methods in Information Systems | |
| Strategic Business Innovation | |

Expand your Personal Network

- On-site lectures
- Collaboration in projects
- Deepen your connections with fellow students during events like field trips
- International connections during double degree and field trips

Field Trips

- First-hand experiences of international business

- Silicon Valley

Innovation

August/September each year

Innovation

August/September each year

- South Africa

Diversity

January/February



Example: Silicon Valley Field Trip

- Places:
 - ◆ San Francisco
 - ◆ Silicon Valley
- Programme
 - ◆ Company visits
 - ◆ Startups
 - ◆ Investors, Incubators
 - ◆ Universities
 - ◆ Excursions



Silicon Valley 2024



databricks



Got It



KANOSCALE

SWISSnex



Alpana Ventures

Google

SJSU SAN JOSÉ STATE
UNIVERSITY



Silicon
Foundry



Stanford
University



PLUGANDPLAY

Double Degrees



- Second Degree:
 - ◆ M.Sc. in Computer Science



- Second Degree:
 - ◆ M.Sc. in Management

Double Degree with University of Camerino, Italy



University Ranking in Italy: University of Camerino is ...

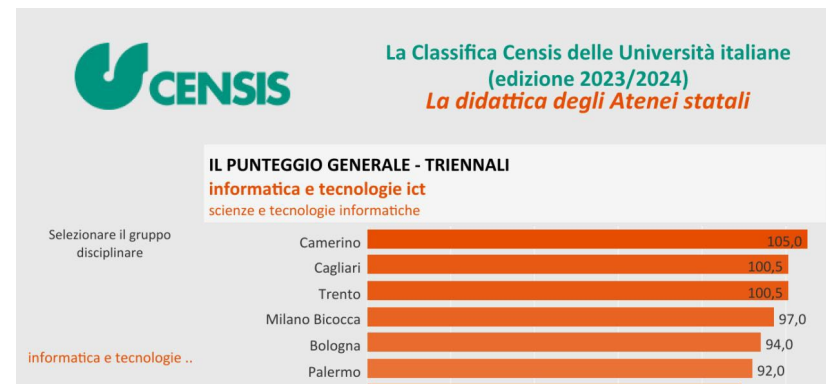
... the best of the small universities in Italy (up to 10'000 students)

| PICCOLI ATENEI STATALI (fino a 10.000 iscritti) | | | | | | | | |
|---|-----------------|---------|-------|-----------|---|-----------------------------|-------------------|-------|
| POSIZ. | ATENEO | SERVIZI | BORSE | STRUTTURE | COMUNI- CAZIONE E SERVIZI DIGITALI | INTERNAZIO- NALIZZAZIONE | OCCUPA- BILITÀ | MEDIA |
| 1 | Camerino | 110 | 93 | 104 | 110 | 98 | 95 | 101,7 |
| 2 | Tuscia | 70 | 91 | 97 | 95 | 79 | 84 | 86,0 |
| 3 | Macerata | 82 | 84 | 95 | 91 | 82 | 80 | 85,7 |
| 4 | Cassino | 68 | 93 | 85 | 98 | 83 | 79 | 84,3 |
| 5 | Sannio | 72 | 94 | 89 | 96 | 77 | 76 | 84,0 |
| 6 | Reggio Calabria | 77 | 110 | 100 | 76 | 66 | 72 | 83,5 |
| 7 | Teramo | 66 | 78 | 99 | 96 | 75 | 66 | 80,0 |
| 8 | Basilicata | 71 | 70 | 94 | 96 | 69 | 68 | 78,0 |
| 9 | Molise | 66 | 80 | 96 | 83 | 68 | 71 | 77,3 |

Highest ranking
of all Italian
Universities

<https://www.censis.it/formazione/la-classifica-censis-delle-universit%C3%A0-italiane-edizione-20232024-0>

... has best Bachelor and second best master program in Computer Science

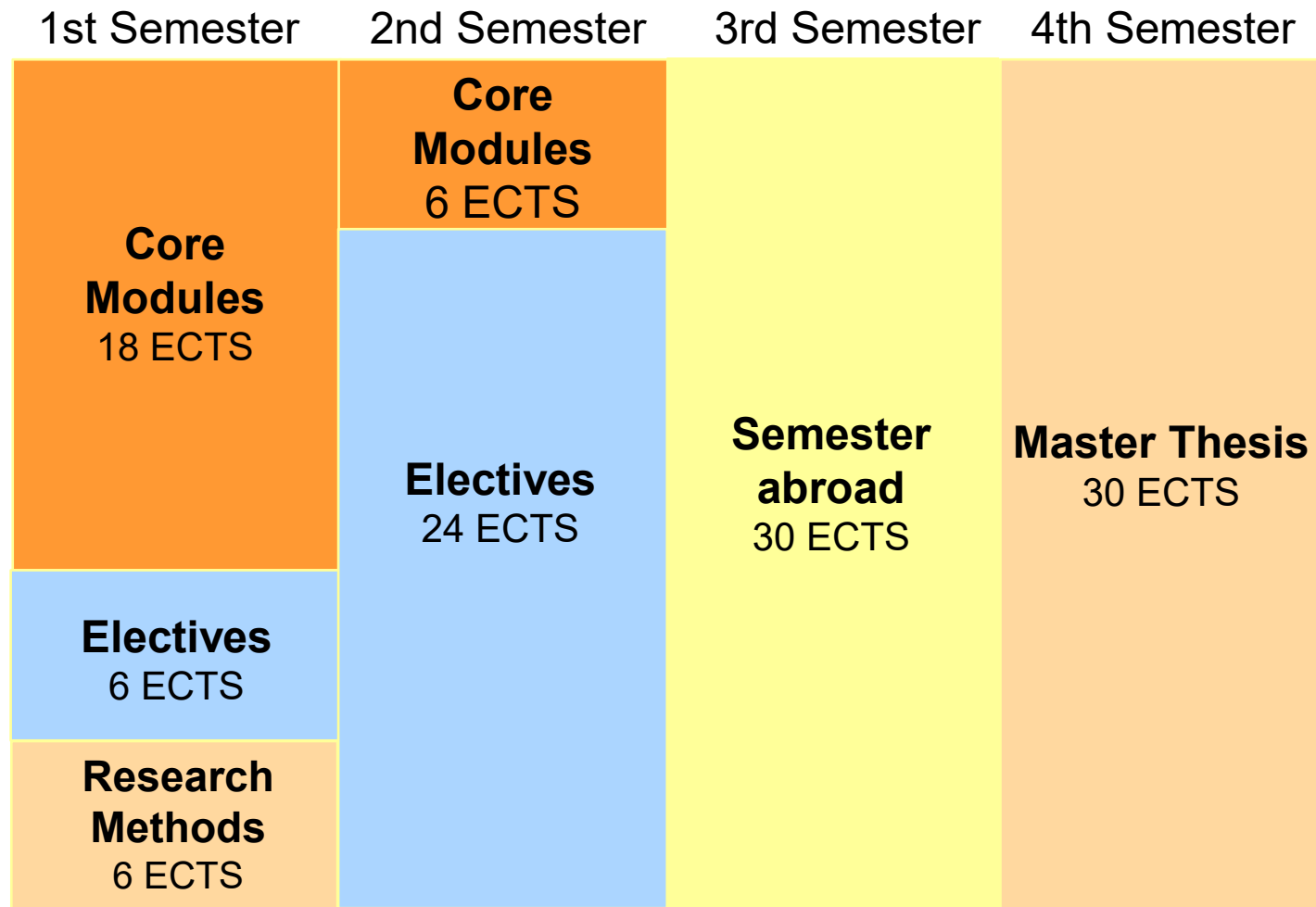


Double Degree with University of Camerino, Italy

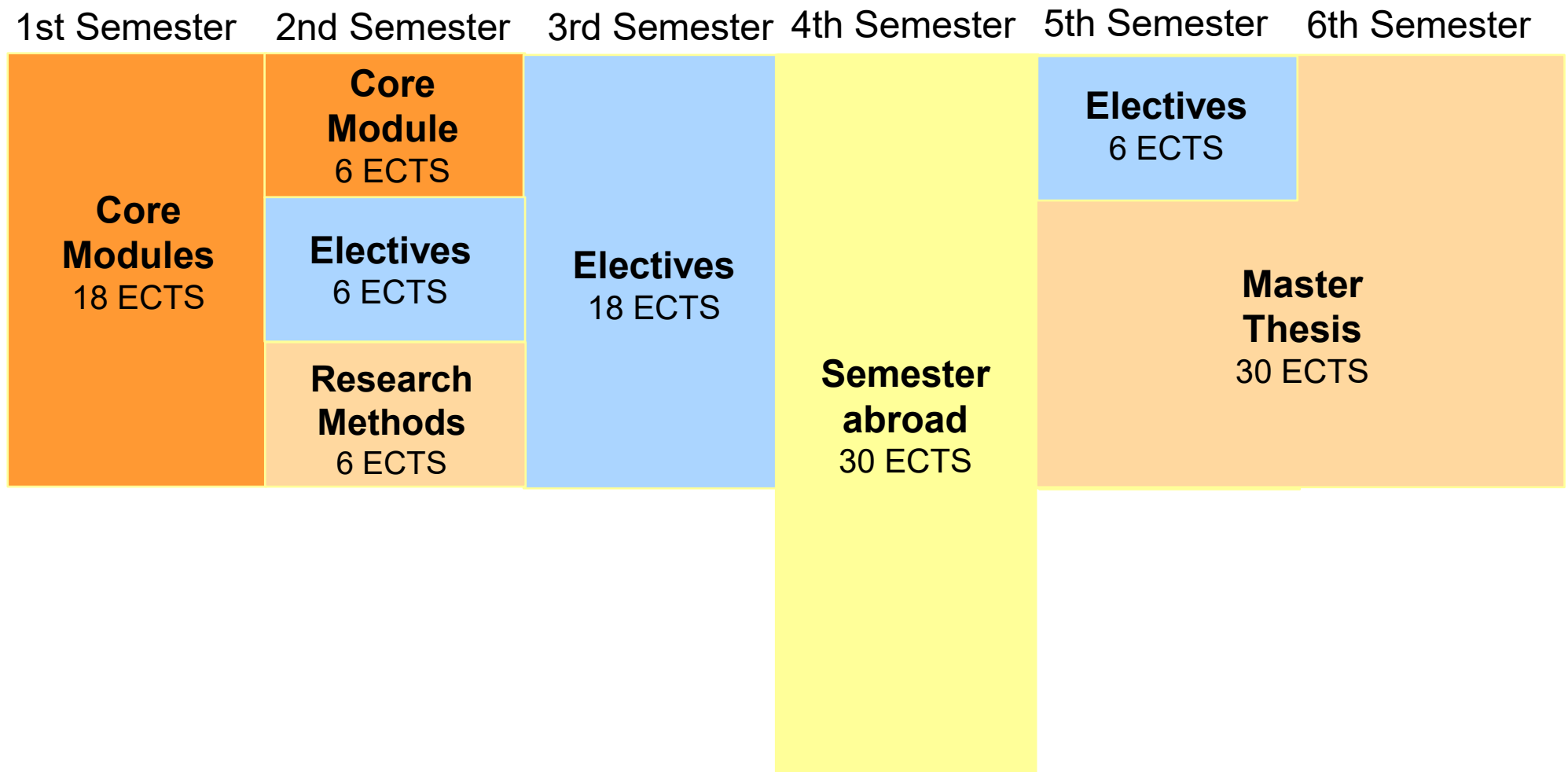
- Gain two degrees
 - ◆ *Master of Science in Business Information Systems* from FHNW, 90 ECTS
 - ◆ *Master of Science in Computer Science* from the University of Camerino, 120 ECTS
- For the dual degree, students spend ...
 - ... one semester at the partner university
 - ... make a joint master thesis of 30 credits



Full-time Course



Part-time Course



Double Degree with Institut Teknologi Bandung, Indonesia



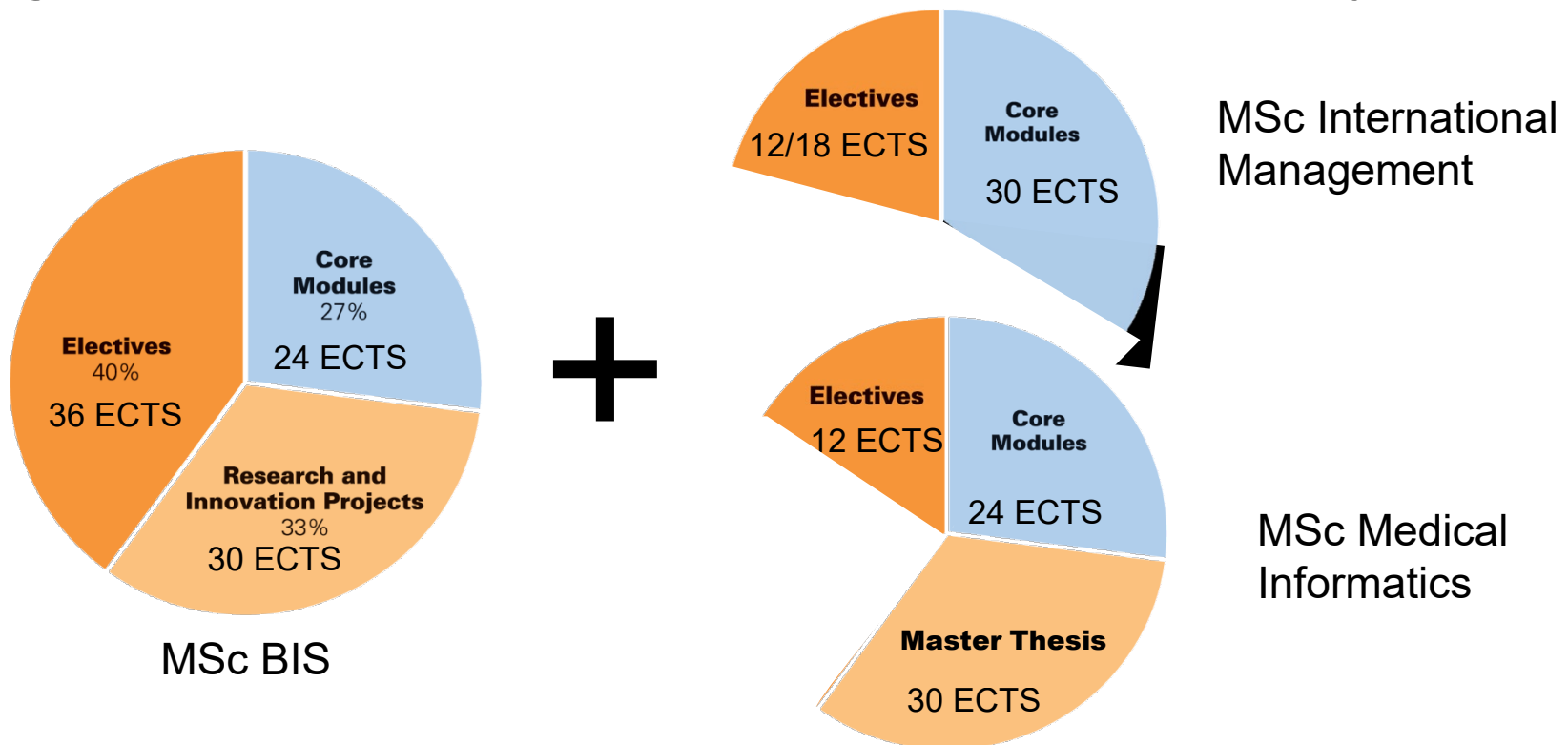
- Degrees:
 - ◆ M.Sc. in Management
 - ◆ M.Sc. in Business Information Systems
- Equivalent to Uni Camerino

Study Abroad

- Typical approach besides double degree:
 - ◆ Finish Master Thesis abroad
 - Master Thesis Proposal at FHNW
 - Master Thesis abroad
 - Successfully organized with
 - Cape Peninsula University of Technology, Cape Town
 - Ho Chi Minh University of Technology
- Individually organized exchange semesters

Credit Transfer for Additional Degrees at FHNW

- Two related Master Programs
 - ◆ MSc International Management
 - ◆ MSc Medical Informatics
- After graduation in MSc Business Information Systems



Why Making a Master of Science?

- Deeper understanding of important areas
- Well-grounded decision making
- Go beyond current state of practice (Innovation) ^{*)}
- Career: New job opportunities
 - ◆ Business
 - Increasing importance of information systems
 - ◆ Academia (PhD) ^{*)}
 - PhD Cooperation with University of Camerino, Italy

^{*)} particularly different from MAS

Admission Requirements

- Required:
 - ◆ Bachelor Degree in
 - Business Information Technology
 - Business Administration
 - Computer Scienceor similar field of study
 - ◆ Work experience
 - ◆ Good linguistic abilities in English
- Of advantage (e.g. in case of waiting list)
 - ◆ Good or very good grades

*Compensation
possible, e.g. with
good grades*

PreMaster

- For eligible students who lack some background, we offer three online Pre-Master courses
 - ◆ Business Process Management
 - ◆ Business Administration
 - ◆ Information Systems
- Alternatives: Approved online courses and Bachelor courses

Tuition Fees

- CHF 700 per semester (for Swiss and Swiss residents)
- CHF 1000 per semester (for EU/EFTA residents)
- CHF 7500 per semester (non Swiss, non EU residents)

Other recurring fees:

- CHF 100 copies and material per semester
- CHF 10 students organisation

Non-recurring fees:

- CHF 200 admission fee
- CHF 300 diploma fee

Place of Tuition: Olten



Easy to reach by public transport

Online Information and Application

<https://www.fhnw.ch/en/degree-programmes/business/msc-bis>



The screenshot shows the FHNW website's application page for the MSc Business Information Systems program. On the left is a yellow sidebar with the n|w logo and navigation links: Degree Programmes, Continuing Education, Research and Services, and About FHNW. At the bottom of the sidebar are language options (EN, DE, FR, IT) and social media icons. The main content area features a large image of students, a breadcrumb trail (Home > Degree Programmes > Forms), and the title 'Application for Admission - MSc Business Information Systems'. Below the title, it instructs users to read the entry requirements and complete the form, noting that only complete forms will be processed. A warning states that the number of study places is limited. The 'Programme' section includes a question about the user's interest in attending the MSc, with two radio button options: 'Full-time (1.5 years)' and 'Part-time (2.5 years / max. 80% professional occupation)'.

n|w

Degree Programmes

Continuing Education

Research and Services

About FHNW

EN

Locations and Contact

Libraries

Media Corner

Home > Degree Programmes > Forms

Application for Admission - MSc Business Information Systems

Please read the MSc in Business Information Systems [entry requirements](#) and complete the information below.
Only complete forms will be processed (incl. attachments).

The number of study places is limited!

Programme

I would like to attend the MSc in Business Information Systems *

☐ Full-time (1.5 years)

☐ Part-time (2.5 years / max. 80% professional occupation)



University of Applied Sciences and Arts
Northwestern Switzerland

School of Business

Prof. Dr. Knut Hinkelmann

Head of MSc Business Information Systems

Postal address: Riggerbachstrasse 16, CH-4600 Olten

Office: Von Roll-Strasse 10, CH-4600 Olten

T +41 62 957 23 01 M +41 78 896 84 24

knut.hinkelmann@fhnw.ch www.fhnw.ch/business/msc-bis
<http://knut.hinkelmann.ch>