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# **Ifl: The Department of Informatics**

- Founded in 1970 (IfI = Institut f\u00fcr Informatik)
- Part of the Faculty of Business, Economics and Informatics
- Focus on human-centered informatics
- 18 Professors, 130 PhD students and Post-Docs
- 500 Bachelor's students
- 600 Master's students
- Campus Oerlikon





### **IfI Professors**



Zurich **Empirical** Software Engineering



**Harald Gall** Software Evolution and Architecture Lab

Team



Visualization and Multi-Media Lab



Interactive **V**isual Data Analysis Group



Artificial Intelligence and Machine Learning Group

Giorgia Ramponi



**Autonomous Sequential** Learning and Predictive Intelligence Lab



Communication Systems Group

**Burkhard Stiller** 



Dynamic and Distributed Information Systems Group



Social Computing Group



Robotics and Perception Group

**Davide Scaramuzza** 



Blockchain and Distributed Ledger Technologies

Claudio Tessone



Data-Base Technology Group



Elaine Huang Zurich People and Computing Lab



Information Management Research Group



Martin Volk Computational Linguistics



Human Aspects of Software Engineering



Data Systems and Theory Group



Computation and **Economics Research** Group

### **General Information Online**

Dean's Office: <a href="https://www.oec.uzh.ch/en/studies.html">https://www.oec.uzh.ch/en/studies.html</a>

> Study Regulations, Admission, Enrollment, Changing Programs, Course Booking, Important Dates, Petitions/Appeals, ...

IfI: <a href="https://www.ifi.uzh.ch/en/studies/msc-info.html">https://www.ifi.uzh.ch/en/studies/msc-info.html</a>

➤ Specific to Informatics: Fact Sheets (legally binding!), Topics/Professors, Tutors/TAs, also these slides for later reference

#### Please read the regulations and fact sheets!

The presentations held at the **Faculty's Master Welcome Day** are available from:

https://www.oec.uzh.ch/en/studies/events/mwd.html

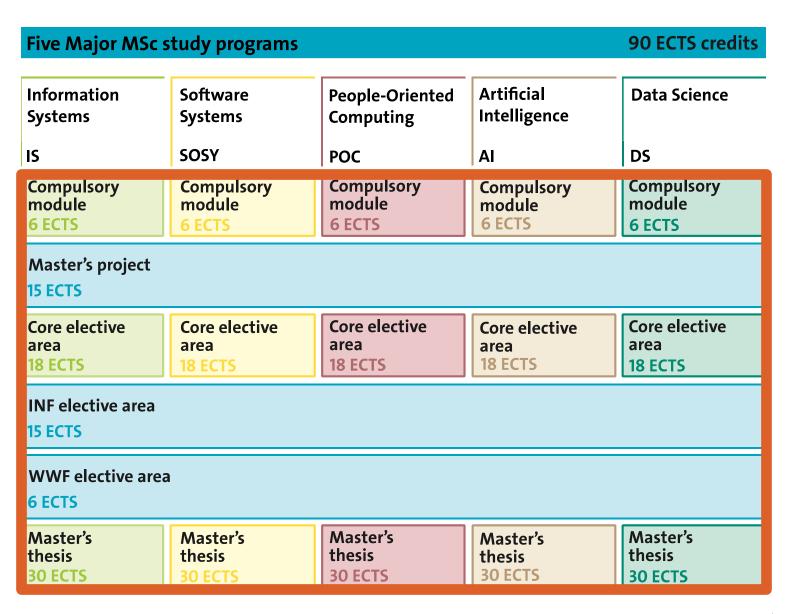


# **Structure of the MSc Programs**

All programs comprise...

- a compulsory module
- a Master's Project (group work!)
- modules from core/elective areas
- a Master's Thesis at the end

More on these components on the next slides...



University of Zurich Department of Informatics

# **Compulsory Module**

The compulsory module is specific to your study program.

### **Fundamentals of Software Systems**

Introduction to advanced topics pertaining to the development and evolution of software systems, particularly distributed, data-intensive systems and their maintenance and evolution.

#### **Prerequisites**

Knowledge of bachelor level topics of distributed systems, databases, and software engineering are necessary for both the lab assignments and following the lectures.

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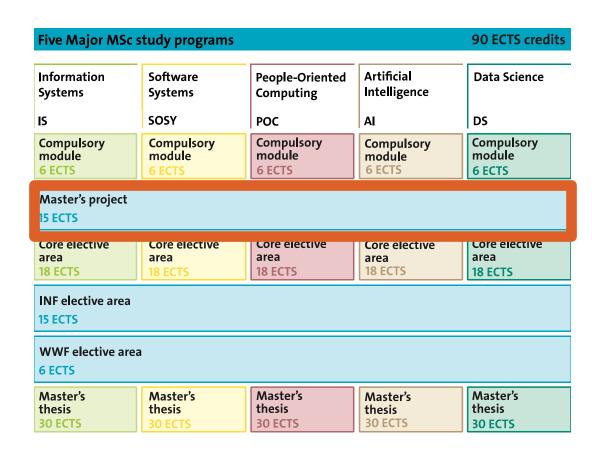
# **Master's Project**

The Master's Project...

- is a group project (= at least 2 students)
- is an **intensive and demanding** project worth 15 ECTS credits
- best time: During semester break
- max. 12 months to complete
- must be supervised by an IfI professor
- Check the fact sheet!

If I organizes a **Master's Project Market** each semester

Some open projects are presented and you can find peers



### **Elective Areas**

#### Core elective area

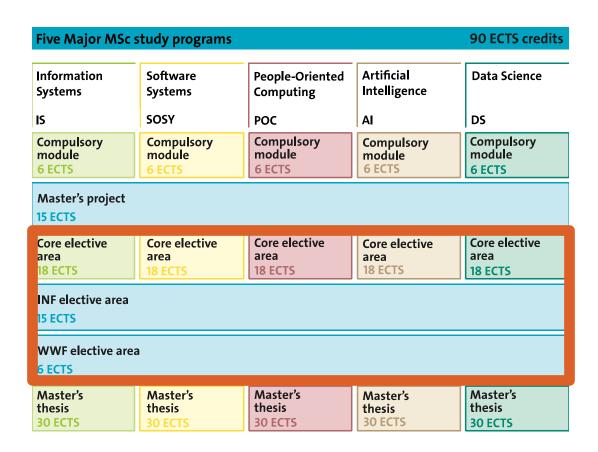
Specific to your Major study program (IS, SOSY, POC, AI, or DS).

#### INF elective area

All modules offered by IfI on the Master's level (definition in the Study Regulations, p. 31)

#### **WWF** elective area

All modules offered by WWF on the Master's level (definition in the Study Regulations, p. 31)

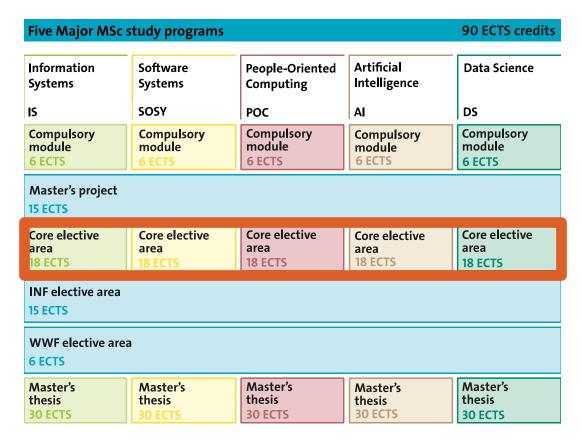


### **Core Elective Area: SOSY**

In the SOSY area, the compulsory module is Fundamentals of Software Systems

#### The core elective modules are:

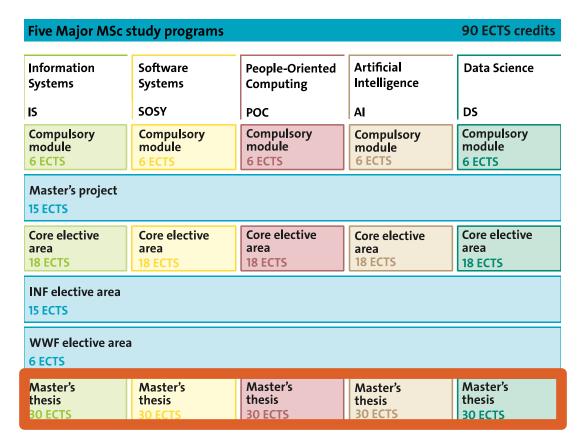
Advanced Software Engineering, Blockchains and Overlay Networks, Communication Systems Lab Course, Computer Network Security Principles, Database Systems Lab, Effective Software Testing, Foundations of Programming Languages and Program Analysis, Human Aspects of Software Engineering, IT Security, Mobile Communication Systems, Object-Oriented Software Development, Protocols for Multimedia Communications (PMMK), Requirements Engineering I, Systems for Data Science, Temporal and Spatial Data Management, XML and Databases.



### **Master's Thesis**

The Master's Thesis...

- must be written in your Major area
- is a **full-time endeavor** worth 30 ECTS credits (i.e., <u>it is not possible</u> to complete significant side jobs or other study activities)
- max. six months to complete
- can only be started once the Master's Project has been successfully completed
- must be supervised by an IfI professor
- Check the fact sheet!
- Find topics on the IfI website (check the individual group pages) or contact the groups directly.



### **Further Modules**

#### Seminar

- one seminar is mandatory
- recommended from 2nd semester
- check the Course Catalogue early and register for the seminar within the seminar's application deadline
- ➤ Note: this deadline is shorter than the regular module booking deadline!

#### **Independent Study**

- Optional module
- > Check the fact sheet!

#### **External Modules**

- ETH: <a href="https://www.oec.uzh.ch/en/studies/credits/external-eth.html">https://www.oec.uzh.ch/en/studies/credits/external-eth.html</a>
- Mobility within Switzerland: <a href="https://www.uzh.ch/cmsssl/en/studies/application/chmobilityout.html">https://www.uzh.ch/cmsssl/en/studies/application/chmobilityout.html</a>
- International exchange: <a href="https://www.int.uzh.ch/en/out.html">https://www.int.uzh.ch/en/out.html</a>
- Partner universities: <a href="https://www.oec.uzh.ch/en/international/engagement.html">https://www.oec.uzh.ch/en/international/engagement.html</a>

# **SOSY – Software Systems**

What else do you need to know about SOSY?

#### Main professors:

Alberto Bacchelli Empirical Software Engineering

Burkhard Stiller Communication Systems

Harald Gall Software Evolution and Architecture

Michael Böhlen Database Technology

Thomas Fritz Human Aspects of Software Engineering

It is possible to change the Major under certain conditions: <a href="https://www.oec.uzh.ch/en/studies/enrollment/change.html">https://www.oec.uzh.ch/en/studies/enrollment/change.html</a>

### **Minor**

#### Available Minor programs are listed in the Course Catalogue:

https://studentservices.uzh.ch/uzh/anonym/vvz/index.html

Master of Science UZH in Informatics (RVO22) > Minor 30

Note: Modules in the *Minor area Informatics (INF)* are offered only in the Fall semester. There are no modules in the *Minor area Informatics* in the Spring semester. Take this into account when planning your next few semesters.

You can change your Minor under certain conditions:

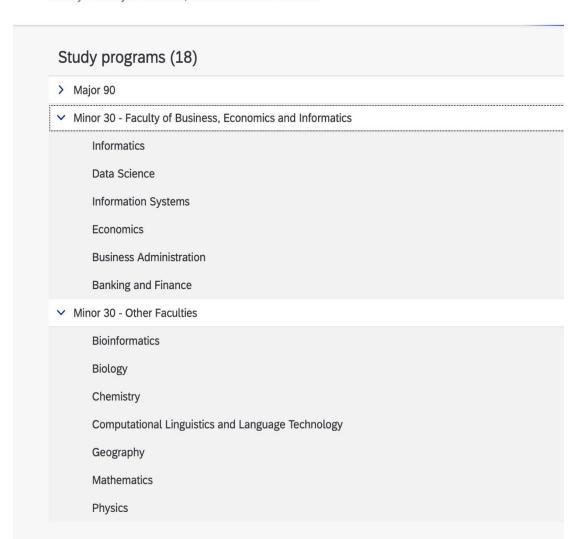
https://www.oec.uzh.ch/en/studies/enrollment/change.html



Home / Degree programs / Degree program

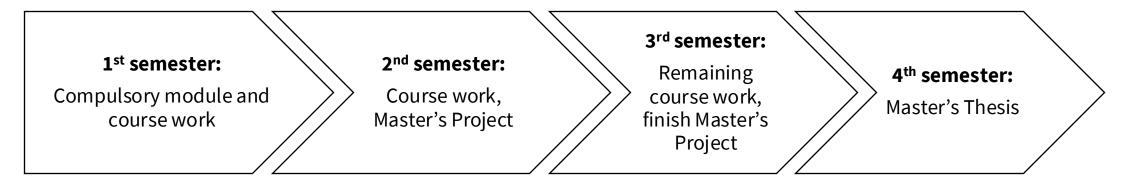
#### Master of Science UZH in Informatics (RVO22)

Faculty: Faculty of Business, Economics and Informatics



# Hints (1/3)

- **Focus on the compulsory modules** in your Major and Minor programs
- Make a study plan
- > Check course schedule of previous years for planning. Courses often stay in the same slot. Suggested order:



- Read the fact sheets well before starting the respective module or thesis
- All legally binding information regarding modules, incl. exam dates, are in the UZH Course Catalogue.
   Most modules additionally have a website or OLAT course, but the Course Catalogue is binding

# Hints (2/3)

- Check the study websites of the Faculty and the Department:
  - <u>https://www.oec.uzh.ch/en/studies.html</u>
  - <u>https://www.ifi.uzh.ch/en/studies/msc-info.html</u>
- Note that booking/cancellation deadlines may vary between faculties.
- Working at IfI: Some modules/courses seek **Tutors or Teaching Assistants**.
- ➤ Check out <a href="https://www.ifi.uzh.ch/en/studies/msc-info.html">https://www.ifi.uzh.ch/en/studies/msc-info.html</a> and the individual group pages.
- Mentoring, social events, representatives: Informatics **student association ICU**: <u>https://icuzh.ch</u>

# Hints (3/3)

- **Consider the policies on plagiarism and scientific integrity.** You find the fact sheet on plagiarism on this website:
  - <u>https://www.ifi.uzh.ch/en/studies/msc-info.html</u>
  - The Swiss Academies of Arts and Sciences issued a Code of conduct for scientific integrity:
     <a href="https://akademien-schweiz.ch/en/themen/scientific-culture/scientific-integrity-1/">https://akademien-schweiz.ch/en/themen/scientific-culture/scientific-integrity-1/</a>
- UZH provides **advice and support services** for topics such as Gender Equality and Diversity, Disability, or Psychological Counseling:
  - <u>https://www.students.uzh.ch/en/advice.html</u>
- **Practice passive and active English without tools** (in exams, no translation tools are permitted)
  - UZH offers English courses: <a href="https://www.sprachenzentrum.uzh.ch/en/Sprachkurse/Englisch.html">https://www.sprachenzentrum.uzh.ch/en/Sprachkurse/Englisch.html</a>

# **Questions/Whom to Contact**

#### If you have questions, please follow these steps:

- 1. Read the Study Regulations: <a href="https://www.oec.uzh.ch/en/studies/regulations.html">https://www.oec.uzh.ch/en/studies/regulations.html</a>
- 2. Read the IfI's study information and fact sheets: <a href="https://www.ifi.uzh.ch/en/studies/msc-info.html">https://www.ifi.uzh.ch/en/studies/msc-info.html</a>
- 3. Check information in the Course Catalogue: <a href="https://studentservices.uzh.ch/uzh/anonym/vvz/index.html">https://studentservices.uzh.ch/uzh/anonym/vvz/index.html</a>
- 4. Send e-mail to the respective person:

For questions about

- Master's Project
- Independent Studies
- Master's Thesis
- Informatics studies in general

Contact the Ifl's Study Coordinator, Daniela Bärtschi: <a href="mailto:studies@ifi.uzh.ch">studies@ifi.uzh.ch</a>

For questions specific to a course: Contact the instructor.

For everything else, contact the Dean's Office: <a href="https://www.oec.uzh.ch/en/staff/team.html">https://www.oec.uzh.ch/en/staff/team.html</a> (Study Affairs)

And of course you can ask your fellow students, for example by joining the student association ICU: <a href="https://icuzh.ch">https://icuzh.ch</a>

# Did you know?

# The Informatics Library is part of the UB Sciences on the Irchel campus!

Books can be delivered to Oerlikon free of charge: Simply select "UB Psychology" as pick-up location in swisscovery.

https://t.uzh.ch/1mr or https://www.ub.uzh.ch/en















# **OEC Mentoring Program 2024/25**

Take your chance and benefit from our alumni's know-how!
For advanced students (BA, MA, PhD) of the Faculty of Business, Economics and Informatics.

### Apply by 7 October 2024!



University of Zurich Department of Informatics