



**Ecole Polytechnique  
Fédérale de Lausanne**

**EPFL**

**School of Computer and  
Communication Sciences IC**



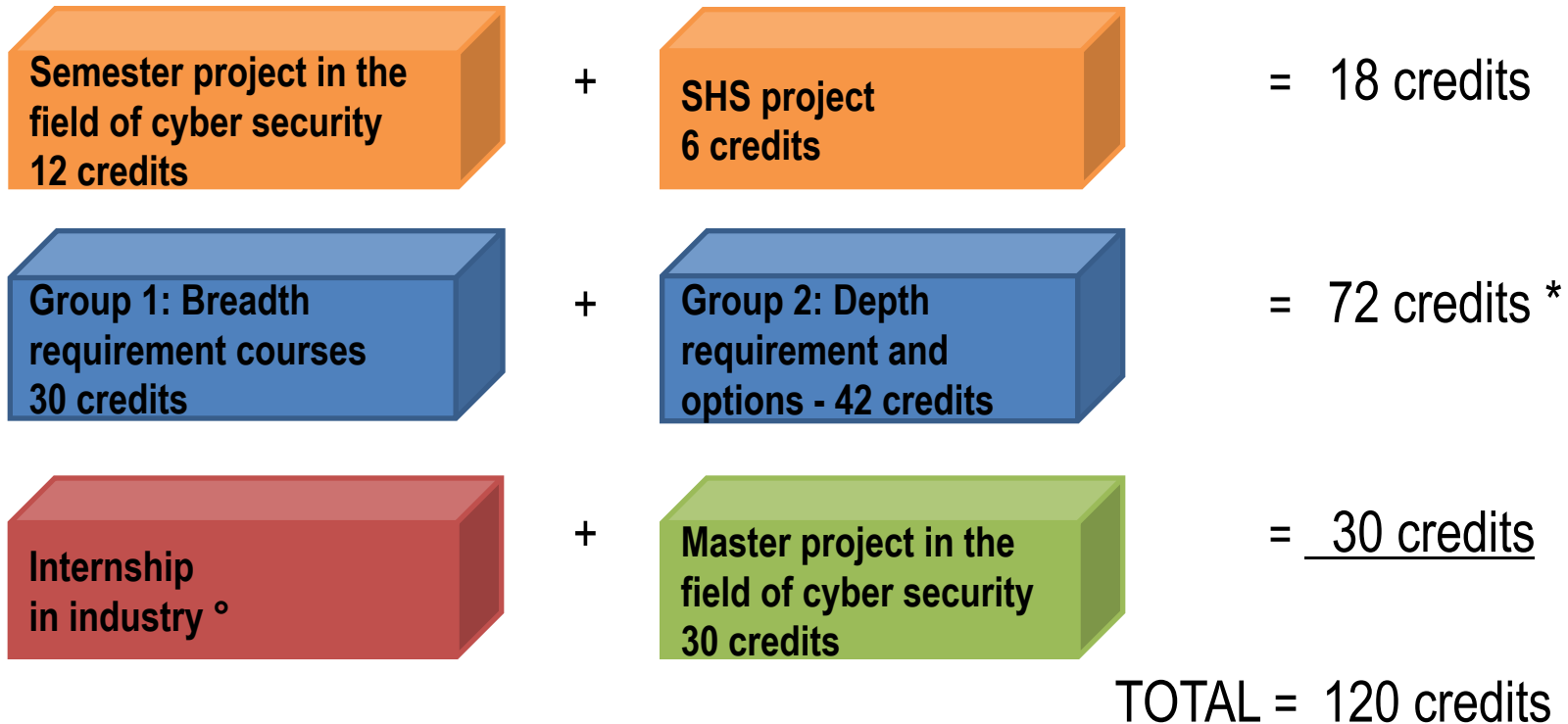
**WELCOME**  
to the new  
**Master program**  
in  
**Computer Science - Cyber  
Security (IN-CS)**  
A joint-degree program  
In collaboration with ETH Zürich

# AGENDA

- Program structure
- Switching program
- Study plan
- Registration to courses and exams
- Mobility semester in Zürich
- Mandatory Internship
- Master Project
- Contacts
- Questions

# PROGRAM STRUCTURE

## COURSES, PROJECTS, AND INTERNSHIPS



\* The condition «depth requirement» is completed when 30 credits of courses named «depth requirement» in the course list are obtained.

° Can be part of a Master project in the industry

# MASTER IN CYBER SECURITY

## WHAT IS MANDATORY ?

EPFL	The first semester in Lausanne
ETHZ	One semester in Zürich Minimum 20 credits Maximum 35 credits List of courses given by Mr Jean-Luc Benz

## **LENGTH OF THE MASTER PROGRAM**

### **Maximum length of the Master program (120 credits)**

- Maximum duration for the Master cycle (before the Master project):  
**6 semesters to get 90 credits**
- Maximum duration for the Master program (including the Master project):  
**8 semesters**
- The internship is not counted in the duration

# SWITCHING PROGRAM



## **SWITCHING PROGRAM**

In order to switch program

**1-** Advise of your interest in switching program by Tuesday, February 26th 2019 (please inform Ms Khadidja Zrelli

[khadidja.zrelli@epfl.ch](mailto:khadidja.zrelli@epfl.ch) )

**2-** A form will be sent to you by email. Final enrolment will be done by return of the form duly completed by Wednesday, July 31st 2019 latest

# STUDY PLAN

# COURSES TO BE TAKEN DURING THE SPRING 2019 SEMESTER

Priority should be given to courses that are marked by the «Depth Requirement» star, as well as those related to «security». We therefore recommend the following courses :

## Depth requirement :

- COM-402 Information security and privacy, Prof. Hubaux, Oechslin & Troncoso
- COM-501 Advanced cryptography, Prof. Vaudenay
- CS-412 Software security, Prof. Payer

## Security oriented :

- MATH-409 Algebraic curves in cryptography, Prof. Jetchev
- EE-552 Media security, Prof. Ebrahimi
- COM-506 Student seminar : security protocols and applications, Prof. Oechslin & Vaudenay

## **SEMESTER PROJECT**

In addition, we suggest that you conduct your mandatory semester project in the field of security  
(E.g., Ford, Troncoso, Payer, Hubaux, Vaudenay, Lenstra, Guerraoui,...)

## CYBER SECURITY STUDY PLAN

- Please follow this link : <https://sac.epfl.ch/study-plans-regulations>
- And click on [Study plan Computer Science-Cybersecurity 19-20 \(work in progress\)](#)
- For the ETHZ courses, please contact Mr Jean-Luc Benz [jean-luc.benz@epfl.ch](mailto:jean-luc.benz@epfl.ch)

## COURSES OUTSIDE THE STUDY PLAN

- 15 credits maximum are allowed for the whole Master program. Out of these 15 credits, 12 credits maximum of “non-technical” courses (HEC, MTE) are allowed.
- However, please note that you cannot register for courses with limited attendance, as they are not available for students who do not have these courses in their study plan (i.e. many MTE courses).
- Authorization must be requested to take these courses BEFORE registering for the courses in IS-Academia.
- Send request by e-mail to the section

## **CHOICE OF COURSES**

Please submit your course choice to Ms Sylviane Dal Mas-office INN 130- **during the office hours** as from **Tuesday, February 26th 2019.**

# REGISTRATION TO COURSES AND EXAMS



## **REGISTRATION TO COURSES AND EXAMS**

- **Deadline** for registration to courses and exams: **Friday, March 1st 2019.**
- Registration for courses and projects is **MANDATORY** in order to be able to take the exams.
- **Latest withdrawal from exams** (for all forms of examination – oral, written and continuous control): **Friday, May 3rd 2019**, except for:
  - EE-593 Social Media (for IN-SC students),
  - ENG-466 Distributed intelligent systems (for IN-SC-DS students),
  - EE-490h Lab in Data science (for DS students),which have «unauthorized withdrawal» after Friday, March 1st 2019

## **ACADEMIC CALENDAR**

Important deadlines and information are available on :

<https://memento.epfl.ch/academic-calendar/>

# **MOBILITY SEMESTER IN ZURICH**

## **MOBILITY SEMESTER IN ZURICH**

- A mobility semester is required in Autumn 2019 or in Spring 2020

## **MOBILITY SCHOLARSHIP**

- Students will receive an allowance of CHF 2'500.– for their mobility semester (CHF 500.– per month)

## **HOUSING IN ZURICH**

- ETHZ has reserved some housing for this purpose starting Spring 2020
- Students will have to pay a rent

# MANDATORY INTERNSHIP

## **MANDATORY INTERNSHIP**

You can do your mandatory internship in one of the following forms:

- Short internship (min. 8 weeks during summer)
- Long internship (6 months) – “sabbatical leave”
- Integrated in the Master project in industry (6 months)

# MASTER PROJECT



## **MASTER PROJECT**

### **In the field of Cyber security**

- Options
  - Within the EPFL – 4 months
  - Out of EPFL – 6 months
  
- 4 possibilities
  - At EPFL, proposals from labs.
  - At EPFL, your own proposal to a Professor.
  - In industry
  - In other Universities

# CONTACTS

## **Computer Science – Cybersecurity (IN-CS)**

- *Head of the Program:* Prof. Mark Pauly
- *Study Advisor:* Prof. Martin Odersky
- *Deputy Head, BS/MS Programs:* Ms Sylviane Dal Mas
- *Mobility coordinator:* Mr Jean-Luc Benz
- *Master Program assistant IN-CS:* Ms Khadidja Zrelli
- *Internship Program assistant:* Ms Patricia Galhardo

**ANY QUESTION?**

# Thank you for your attention

Author:

**School of Computer and Communication  
Sciences IC**

Computer Science and Communication  
Systems programs

