



Politecnico
di Torino



Welcome event

MSc in Cybersecurity

International students

CdLM in Cybersecurity @ PoliTO

compliant with the ECSO Curricula
(European Cybersecurity Organization)

- › one of the first implementations in the EU
- › clear, well-defined, and well-understood profiles
 - › a clear set of university courses covers topics that are considered essential at EU-level
- › primarily, it's an MSc in Engineering,
 - › even if it provides knowledge, abilities, and competencies in law, economics, and social sciences



inspired by other international standards

- › the NIST Risk Management Framework
- › emphasizes the importance of hybrid profiles

all courses are in English



Careers



Cybersecurity Analyst

assess the security posture of an information systems, monitors and respond to incidents, and performs forensic analysis

Cybersecurity Designer

plans, designs, and implements the security measures that allow reaching the proper security level



Cybersecurity Legal, Policy and Compliance Officer

checks compliance against standards, understands and evaluates legal strategies, understands business, and manages security at the company level

Cryptography expert

defines and develops basic and advanced cryptography-based applications and programs



The Master in Cybersecurity Engineering

all taught in English

- lectures, exercises, and labs
- individual and group activities



4 Career paths corresponding to 4 profiles:

- Cyber Designer***
- Cryptography expert***
- Cyber Analyst***
- Cyber Legal & Compliance Officer***

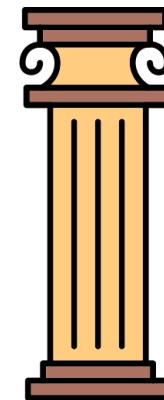
Interclasse: you can choose between

- LM-32 (Computer Science Engineering) and***
- LM-66 (Cybersecurity)***

conclude it with a Thesis or add an Internship

The Design of the Cybersecurity Engineering master

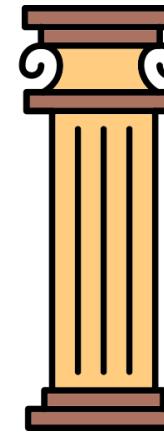
Cybersecurity



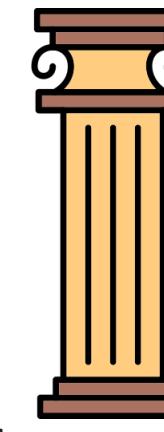
hybrid competencies



LM32 & LM66



compliance



Innovation



Learning areas

Computer Science



Cybersecurity Protection



Cybersecurity Monitoring



Cryptography



Legal and Regulatory



Governance



Careers



Cryptography expert



Cyber Designer

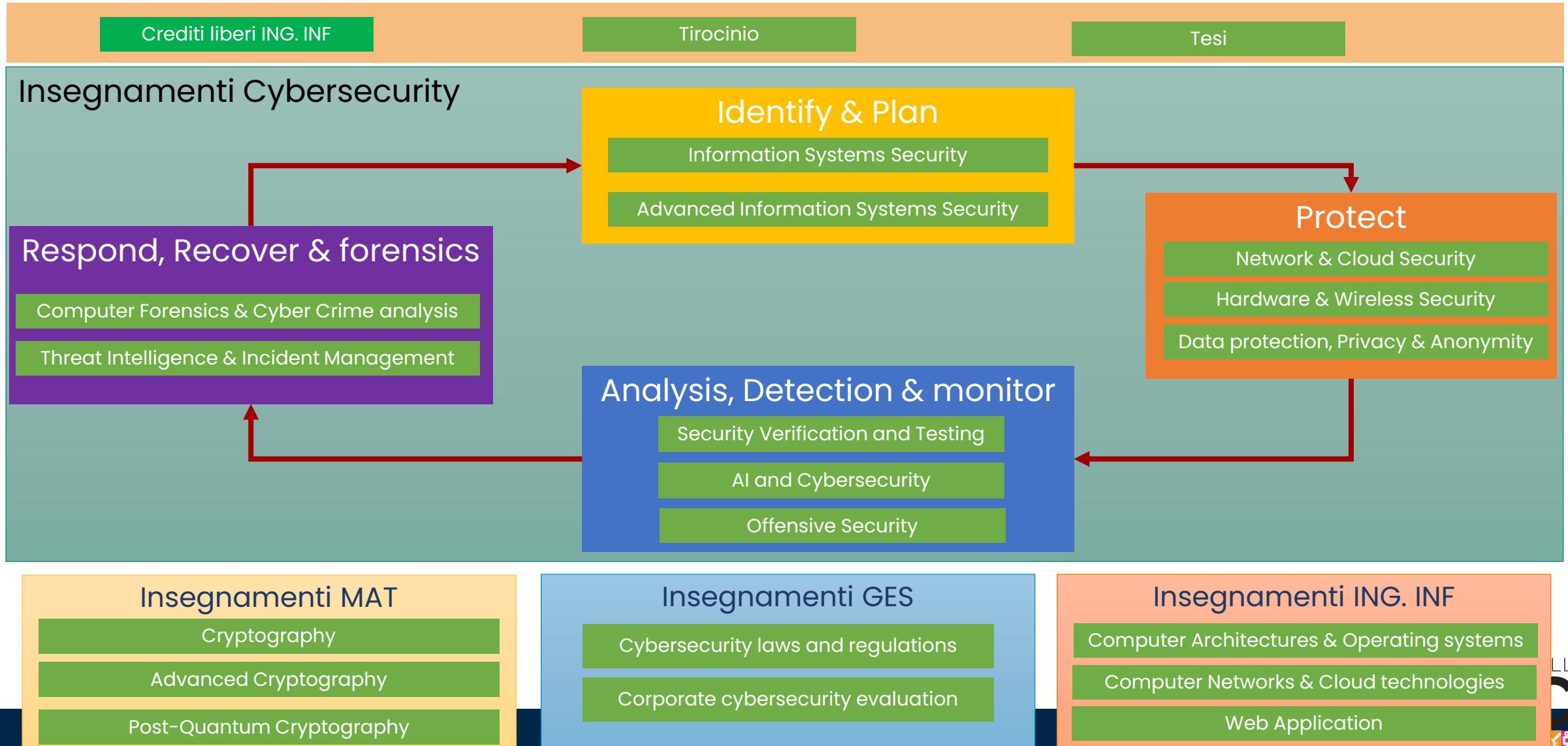


Cyber Legal & Compliance Officer



Cyber Analyst

Study plan



First year

...the same for all the careers



Name	CFU	Period
Computer architectures and operating systems	8	1
Information Systems Security	8	1
Corso di Base a scelta	6	1 o 2
Networks & Cloud Technology and Security	12	1 + 2
Web applications	8	2
Cryptography	6	2
Hardware & Wireless Security	12	2

Second Year

Ambito Giuridico, Economico Sociale (GES)
Ambito Matematico (MAT)
Ambito Cybersecurity (CYBER)



	Analyst	Designer	Officer	Cryptography
Obbligatori	1 GES			
Caratterizzanti	1 CYBER	1 CYBER	1 CYBER	1 MAT
A scelta	1 CYBER o MAT	1 CYBER o MAT	2 GES 2 CYBER o 1 CYBER + 1 MAT	1 MAT 2 CYBER 1 GES
	1 GES	1 GES		





Second Year: **Cyber Analyst**

Name	CFU	Periodo
Security Verification and Testing	8	1
Cybersecurity laws and regulations	6	1
AI and Cybersecurity	6	1
Advanced Cryptography	6	1
Advanced Information Systems Security	8	1
Data protection, Privacy and Anonymity	6	1
-----		1 on 3
Computer Forensics and cyber crime analysis	8	2
Technology and Innovation Management in Cybersecurity	6	2
Threat Intelligence and Incident Management	6	2
Tesi oppure Tirocinio+Tesi	22	2



Second Year: Cyber Designer

Nome	CFU	Periodo
Advanced Information Systems Security	8	1
Cybersecurity laws and regulations	6	1
Data protection, Privacy and Anonymity	6	1
Advanced Cryptography	6	1
Security Verification and Testing	8	1
AI and Cybersecurity	6	1
-----		1 on 3
Computer Forensics and cyber crime analysis	8	2
Technology and Innovation Management in Cybersecurity	6	2
Offensive Security	6	2
Tesi oppure Tirocinio+Tesi	22	2



Second Year: **Cryptography expert**

Nome	CFU	Periodo	
Cybersecurity laws and regulations	6	1	
Advanced Cryptography	6	1	
Security Verification and Testing	8	1	
Advanced Information Systems Security	8	1	1 on 2
AI and Cybersecurity	6	1	1 on 2
Data protection, Privacy and Anonymity	6	1	1 on 2
<hr/>			
Computer Forensics and cyber crime analysis	8	2	1 on 2
Technology and Innovation Management in Cybersecurity	6	2	
Post-quantum Cryptography	6	2	
Tesi oppure Tirocinio+Tesi	22	2	



Second Year: **Cyber Legal & Compliance Officer**

Nome	CFU	Periodo
Cybersecurity laws and regulations	6	1
Data protection, Privacy and Anonymity	6	1
Security Verification and Testing	8	1
Advanced Information Systems Security	8	1
AI and Cybersecurity	6	1
Advanced Cryptography	6	1
Choose 2 on 4		
Computer Forensics and cyber crime analysis	8	2
Technology and Innovation Management in Cybersecurity	6	2
Tesi oppure Tirocinio+Tesi	22	2

Theses, Internships, studying abroad

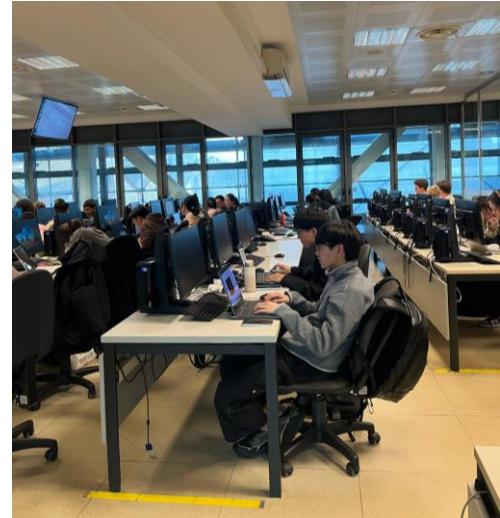
- you may choose from
 - Thesis → 22 CFU
 - Internship 10 CFU + Thesis 12 CFU
- Thesis
 - @PoliTOr or any other companies and bodies
 - in Italy or abroad
- Internships
 - on-the-job training in cybersecurity companies
- spend one or two semesters studying abroad
 - choose a double degree programs



Description of Complementary Activities

Labs

- Hands-on practical activities led by instructors in computer labs
- Application of theoretical concepts through real case studies
- Individual and group work to foster both autonomy and collaboration



Students' favourite!



Seminars



- Seminars on cutting-edge cybersecurity topics
- Held by international professors and industry experts
- Informal discussions follow each seminar, often accompanied by an aperitif





Site Visits & Experiential Activities

- Explore real working environments to understand day-to-day cybersecurity operations
- Meet professionals in the field
- Gain practical insight into the inner workings of operational centers (e.g., SOCs)
- Discover and see cutting-edge technologies in action
- Learn about career opportunities firsthand



CyberMonday

A dedicated event focused on the Master's Degree Program in Cybersecurity Engineering, featuring:

- Presentations of **research activities** at Politecnico di Torino
- Overview of **thesis and internship opportunities**, both at the university and with external partners in Italy or abroad
- Information on **international mobility programs**: Erasmus+, double degree programs, thesis abroad
- Introduction to **PhD and Master's programs** available after graduation



Student Team: pwnthem0le



study plan

Website:



study plan:



Telegram:



Politecnico
di Torino

COLLEGIO
ICM
A series of four small, colorful icons representing different academic disciplines or fields of study.