
















# Master in cybersecurity

## Focus Cryptanalysis and Forensics

### Bloc 1 | M-SECUC | MA-SECU

## Cours obligatoires

- ELEC-H504 **Network Security** | Jean-Michel DRICOT (Coordinator) and Charles CUVELLIEZ  
 5 credits [lecture: 24h, practical work: 12h]  second term  English
- INFO-F307 **Génie logiciel et gestion de projets** | Frédéric PLUQUET (Coordinator)  
 5 credits [lecture: 24h, practical work: 36h]  second term  French
- INFO-F309 **Administration de systèmes** | Sébastien COLLETTE (Coordinator)  
 5 credits [lecture: 24h, practical work: 24h]  first term  French
- INFO-F405 **Introduction to cryptography** | Olivier MARKOWITCH (Coordinator)  
 5 credits [lecture: 24h, tutorial classes: 24h]  first term  English
- INFO-F514 **Protocols, cryptanalysis and mathematical cryptology** | Olivier MARKOWITCH (Coordinator) and Christophe PETIT  
 5 credits [lecture: 24h, tutorial classes: 12h]  second term  English
- INFO-Y111 **Computer system security**  
 5 credits [lecture: 30h, tutorial classes: 15h]  second term
- INFO-Y112 **Machine learning and data mining**  
 5 credits [lecture: 30h, practical work: 15h]  first term
- INFO-Y113 **Management of security**  
 5 credits [lecture: 24h, practical work: 24h]  first term
- INFO-Y114 **Legal aspects of IT security**  
 5 credits [lecture: 30h]  first term
- INFO-Y115 **Secure software design and web security** | Romain ABSIL (Coordinator)  
 5 credits [lecture: 30h, practical work: 20h]  first term

## Cours à option - Electives (10 crédits)

- TEMP-0000 **Cours extérieurs au programme**  
 10 credits  academic year  French

# Master in cybersecurity

## Focus Cryptanalysis and Forensics

### Bloc 2 | M-SECUC | MA-SECU

## Cours obligatoires

- ELEC-H423 **Mobile and wireless networks** | Jean-Michel DRICOT (Coordinator)  
⌚ 5 credits [lecture: 36h, practical work: 24h] 📅 first term 🗨 English
- INFO-Y116 **Aspects éthiques de l'informatique et de la sécurité informatique**  
⌚ 5 credits [lecture: 30h] 📅 second term
- MEMO-Y117 **Master thesis** | Jean-Michel DRICOT (Coordinator)  
⌚ 20 credits [mfe/tfe: 240h] 📅 academic year

## Cours spécifiques
















- INFO-F531 **Security analysis internship** | Jean-Michel DRICOT (Coordinator) and Olivier MARKOWITCH  
⌚ 10 credits [work placement: 120h, cours global: 120h] 📅 first and second terms
- INFO-Y118 **Mobile and embedded computing**  
⌚ 5 credits [lecture: 30h, tutorial classes: 30h] 📅 second term
- INFO-Y119 **Forensics and reverse engineering**  
⌚ 5 credits [lecture: 24h, practical work: 24h] 📅 first term
- INFO-Y120 **Big data and computer security** | Jean-Noël COLIN (Coordinator)  
⌚ 5 credits [lecture: 30h, practical work: 15h] 📅 second term
- INFO-Y121 **Privacy enhancing technologies**  
⌚ 5 credits [lecture: 30h, tutorial classes: 30h] 📅 first term

# Master in cybersecurity

## Focus Corporate Strategies

### Bloc 1 | M-SECUS | MA-SECU

## Cours obligatoires

- ELEC-H504 **Network Security** | Jean-Michel DRICOT (Coordinator) and Charles CUVELLIEZ  
 5 credits [lecture: 24h, practical work: 12h]  second term  English
- INFO-F307 **Génie logiciel et gestion de projets** | Frédéric PLUQUET (Coordinator)  
 5 credits [lecture: 24h, practical work: 36h]  second term  French
- INFO-F309 **Administration de systèmes** | Sébastien COLLETTE (Coordinator)  
 5 credits [lecture: 24h, practical work: 24h]  first term  French
- INFO-F405 **Introduction to cryptography** | Olivier MARKOWITCH (Coordinator)  
 5 credits [lecture: 24h, tutorial classes: 24h]  first term  English
- INFO-F514 **Protocols, cryptanalysis and mathematical cryptology** | Olivier MARKOWITCH (Coordinator) and Christophe PETIT  
 5 credits [lecture: 24h, tutorial classes: 12h]  second term  English
- INFO-Y111 **Computer system security**  
 5 credits [lecture: 30h, tutorial classes: 15h]  second term
- INFO-Y112 **Machine learning and data mining**  
 5 credits [lecture: 30h, practical work: 15h]  first term
- INFO-Y113 **Management of security**  
 5 credits [lecture: 24h, practical work: 24h]  first term
- INFO-Y114 **Legal aspects of IT security**  
 5 credits [lecture: 30h]  first term
- INFO-Y115 **Secure software design and web security** | Romain ABSIL (Coordinator)  
 5 credits [lecture: 30h, practical work: 20h]  first term

## Cours à option - Electives (10 crédits)

- TEMP-0000 **Cours extérieurs au programme**  
 10 credits  academic year  French

# Master in cybersecurity

## Focus Corporate Strategies

### Bloc 2 | M-SECUS | MA-SECU

## Cours obligatoires

- ELEC-H423 [Mobile and wireless networks](#) | Jean-Michel DRICOT (Coordinator)  
⌚ 5 credits [lecture: 36h, practical work: 24h] 📅 first term 🗣️ English
- INFO-Y116 [Aspects éthiques de l'informatique et de la sécurité informatique](#)  
⌚ 5 credits [lecture: 30h] 📅 second term
- MEMO-Y117 [Master thesis](#) | Jean-Michel DRICOT (Coordinator)  
⌚ 20 credits [mfe/tfe: 240h] 📅 academic year

## Cours spécifiques

- INFO-Y122 [Security Analysis: from audits to red teaming](#) | Jérôme DOSSOGNE (Coordinator)  
⌚ 5 credits [lecture: 30h, practical work: 30h] 📅 first term
- INFO-Y123 [Human factors in information security](#) | Jérôme DOSSOGNE (Coordinator)  
⌚ 10 credits [lecture: 60h, practical work: 60h] 📅 academic year
- INFO-Y124 [Case studies in security strategies](#) | Charles CUVELLIEZ (Coordinator)  
⌚ 5 credits [lecture: 30h, practical work: 30h] 📅 second term
- INFO-Y125 [Internship in Cybersecurity](#) | Carine PIERRE (Coordinator)  
⌚ 10 credits [work placement: 120h] 📅 first term