



Canadian
Institute for
Cybersecurity

CYBERSECURITY GRADUATE STUDIES

MASTER OF APPLIED
CYBERSECURITY (MACSec)



THE OPPORTUNITY

The need for talent in cybersecurity continues to grow. From 2019–2023E, approximately \$5.2 trillion in global value will be at risk from cyberattacks.

With 3.5 million unfilled cybersecurity positions, and an average salary of \$100k, the Master of Applied Cybersecurity (MACSec) will help equip you to enter this ever-evolving industry.

The Canadian Institute for Cybersecurity (CIC) at the University of New Brunswick (UNB) is an innovator in cybersecurity research with over 20 years of industry-leading knowledge.

Through this program, you may join the Research Intensive Cyber Knowledge Studies (RICKS) where you may work in an R&D project with a CIC industry partner - and the potential to get a full scholarship and an employment offer.



MASTERS PROGRAM IN CYBERSECURITY (MACSec)

COURSE SCHEDULE

FALL TERM

- Fundamentals of Information Security
- Fundamentals of Information Assurance
- Advanced Data Communications and Networking
- Cryptanalysis and Database Security

WINTER TERM

- Network Security
- Foundations of Privacy
- Software Security
- Project Management for Cyber Security Environments

SUMMER TERM - FINAL MACSec TERM

- Digital Forensics
- Capstone Project (6 credits)

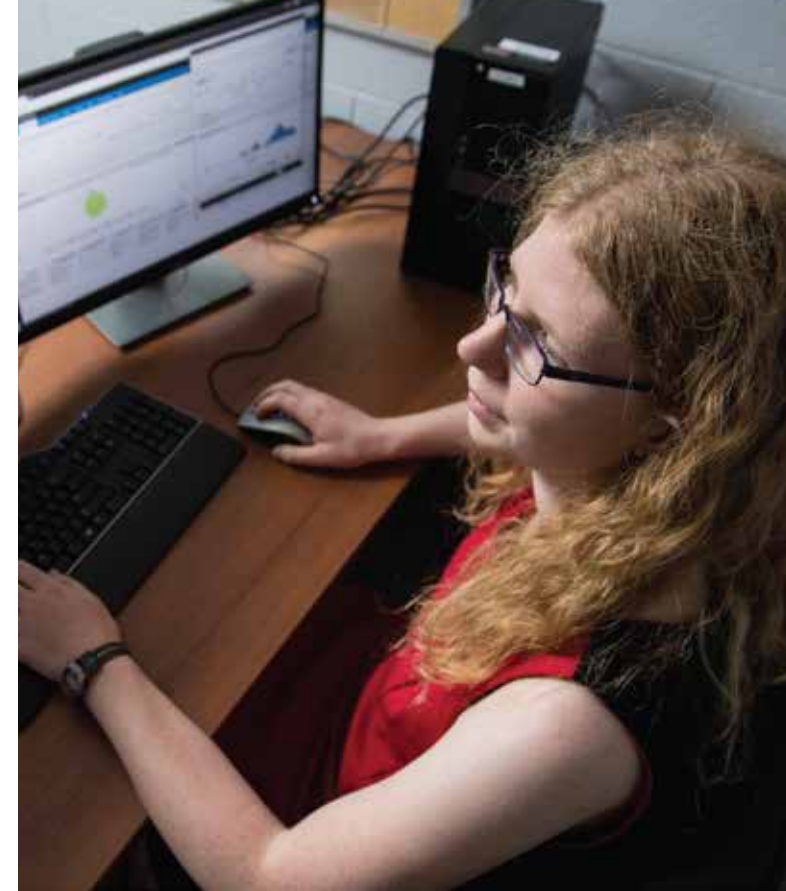
FALL TERM - RICKS starts*

- 4-month R&D project specified by Industry Partner
Including:
 - 2-week Cybersecurity Project Management
 - 2-week Cybersecurity New Product Development

*For the MACSec students selected by the Industrial Partner

**UNB MASTER
OF APPLIED
CYBERSECURITY**
(12 MONTHS)

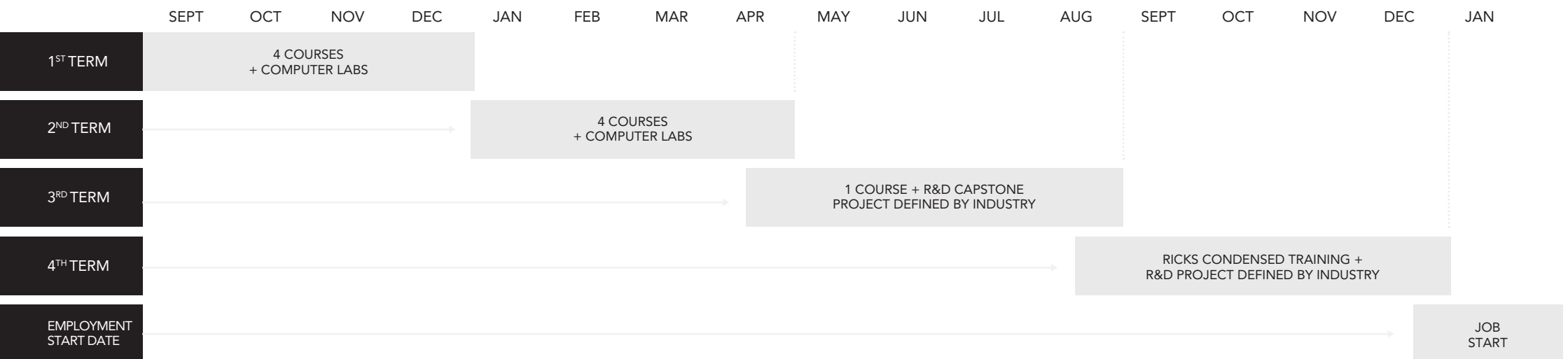
**RESEARCH
INTENSIVE
CYBER
KNOWLEDGE
STUDIES
PROGRAM**
(16 MONTHS)



RESEARCH INTENSIVE CYBER KNOWLEDGE STUDIES (RICKS)

PROGRAM STRUCTURE TIMELINE (16 MONTHS)

READY TO START SEPTEMBER 2020



THE TOPICS EXPLORED THROUGHOUT THE YEAR-LONG GRADUATE STUDY IN CYBERSECURITY ARE:

ADVANCED DATA COMMUNICATIONS AND NETWORKING
CRYPTANALYSIS AND DATABASE SECURITY
FUNDAMENTALS OF INFORMATION ASSURANCE
FOUNDATIONS OF PRIVACY • NETWORK SECURITY
SOFTWARE SECURITY • DIGITAL FORENSICS
ELECTIVE COURSE + CAPSTONE PROJECT
CONDENSED TRAINING, R&D PROJECT*

AND PREPARES YOU FOR CAREERS SUCH AS:

CHIEF INFORMATION SECURITY OFFICER
FORENSIC COMPUTER ANALYST
INFORMATION SECURITY ANALYST • PENETRATION TESTER
SECURITY ARCHITECT • IT SECURITY ENGINEER
SECURITY SYSTEMS ADMINISTRATOR
IT SECURITY CONSULTANT

APPLICATION REQUIREMENTS

1. Undergraduate degree in Computer Science (or related discipline such as Engineering or Science), with a minimum GPA of B
2. Computer Science background requirements: software engineering, data structures, operating systems, algorithms and computer architecture
3. English proficiency test results (applies to International applicants; needs TOEFL iBT 92 with 23 written, IELTS band 7 overall and written, or equivalent)
4. Complete the application form at <https://applygrad.unb.ca/>

**CONTACT CIC@UNB.CA
FOR MORE INFORMATION**

**APPLY NOW
AT [APPLYGRAD.UNB.CA](https://applygrad.unb.ca)**