Master of Cyber Security

Study our Master of Cyber Security and go beyond traditional thinking. We bring together students from technology, business, mathematics, social science and law to offer an integrated learning experience, unique to UQ.

Our aim is to create specialists with a deep understanding of cyber security's impact on every aspect of modern life, and to empower cyber security leaders for a resilient, more productive digital future.
Master of Cyber Security

Program duration
1.5 years full-time (3 semesters)
2 years full-time (4 semesters)

Location
St Lucia

Study mode
Internal

Intake
Semester 2, 2020

Accreditation
UQ is currently seeking accreditation via the Australian Computer Society. This Master’s has been designed to align with USA’s National Institute of Standards and Technology’s Cyber Security Education (NICE) framework.

English language proficiency requirements
A score equivalent to four semesters of Sound Achievement in Queensland Studies Authority English or Australian or international equivalent.
An IELTS overall score of 6.5, with a score of 6 in writing, reading, speaking and listening.
For other English Language Proficiency tests and scores approved for UQ, visit: future-students.uq.edu.au/english-requirements

How to apply
Information about application procedures can be found at: future-students.uq.edu.au/apply/international

Fees
For the most up-to-date program fees, please type in the name of your program at: uq.edu.au/study.
Fees are subject to annual indexation. ppl.app.uq.edu.au/content/3.40.03-international-student-refunds

Go beyond traditional education.

The UQ Master of Cyber Security takes you beyond traditional thinking and education. This is a new degree for a new kind of professional, aligned to the National Institute of Standards and Technology’s internationally-recognised Cyber Security Education framework, taught by leading academics and industry professionals, with a truly inter-disciplinary approach to the field.

You will develop an understanding of the global cyber security landscape, informed by industry and government experts, to find better ways to defend, adapt and lead for a resilient, more productive digital world. Wherever you’re positioned in your career, you’ll look at the field from a different angle, ask bigger questions, and find new and exciting ways to meet the security challenges of the future.

Entry Requirements
Depending on the length of your program and chosen field, entry requirements and prerequisites differ. Please refer to the program admissions criteria for more information.

<table>
<thead>
<tr>
<th>2 years (32 units)</th>
<th>1.5 years (24 units)</th>
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<tbody>
<tr>
<td>Graduate Certificate / Graduate Diploma / Bachelor degree</td>
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<tr>
<td>Cyber Defence</td>
<td>In any discipline</td>
</tr>
<tr>
<td>Leadership</td>
<td>+</td>
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<tr>
<td>Cyber Criminology</td>
<td>2 years management</td>
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<td></td>
<td>experience</td>
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<tr>
<td>Cryptography</td>
<td>(Leadership field only)</td>
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*Please refer to the program admissions criteria for more information.

“There is a lack of professionals available that meet industry need for both depth and breadth of cyber security knowledge, problem solving and at least some devops skills.
Experience and specific skills can be acquired on the job, however, job applicants with a solid knowledge of cyber security are naturally at an advantage.”

MIKE HOLM
Operations Manager, AusCERT
What you will study

### Interdisciplinary core
- Fundamentals of Cyber Security
- Information Security Essentials
- Cyber Security Governance, Policy, Ethics and Law
- Cyber Criminology and Global Security

### Fields of study

<table>
<thead>
<tr>
<th>Cyber Defence</th>
<th>Leadership</th>
<th>Cyber Criminology</th>
<th>Cryptography</th>
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### Foundation courses

<table>
<thead>
<tr>
<th>Operating Systems</th>
<th>Becoming an Effective Leader in Cyber Security</th>
<th>Introduction to Criminology</th>
<th>Linear and Abstract Algebra and Number Theory</th>
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<tr>
<td>Relational Database Systems</td>
<td>Leading the Organisation for Cyber Security</td>
<td>Introduction to Criminal Justice</td>
<td>Discrete Mathematics II</td>
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<tr>
<td>Web Information Systems</td>
<td>Leading High Performing Cyber Security Teams</td>
<td>Australian Crime Policy</td>
<td>Calculus and Linear Algebra I</td>
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<tr>
<td>Computer Networks 1</td>
<td>Business and Corporate Law</td>
<td>Crime Prevention Policy and Practice</td>
<td>Applied Probability and Statistics</td>
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### Advanced courses

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<tr>
<th>Vulnerability Assessment and Penetration Testing</th>
<th>Corporate Governance Law and Practice</th>
<th>Cyber Crime Foundations</th>
<th>Coding and Cryptography</th>
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<tbody>
<tr>
<td>Cyber Incident Response</td>
<td>Cyber Security Human Capital Management</td>
<td>CyberCrime Regulation, Investigation and Responses</td>
<td>Quantum Algorithms and Quantum Computing</td>
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<th>Electives</th>
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Research or industry based capstone allowing students to tackle a significant topic in their elected field of study.

### Cyber Security careers

- Information Security Architect
- Cyber Security Analyst
- Cyber Security Consultant
- Penetration Tester
- Information Security Specialist
- Security Systems Administrator
- Chief Information Security Officers (CISO)
- Chief Executive Officer (CEO)
- Executive Board and Director Positions
- Information Security Manager
- Entrepreneurship in Cyber Security
- Managerial Positions in IT and Cyber Security
- Cyber Crime and Privacy Policy Advisor
- Digital Forensics Expert
- Cyber Crime Investigator
- Government Policy Advisor
- Anti-money Laundering Investigator
- Dark Web Intelligence Expert
- Signals Intelligence Officer
- Malware Analysts
- Cryptographic Systems Engineer
- Financial and Payment Systems Engineer
- Defence Intelligence Officer
- Applied Cryptographer
For more details, visit

future-students.uq.edu.au
cyber.uq.edu.au

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T: +61 7 3365 4777

International student enquiries:
study@uq.edu.au
+61 3 8676 7004
uq.edu.au/international-students/enquire-online