

資電黑客與安全碩士學位學程修課規定

108 學年度

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| 最低修業年限 | 一般生為一至四年。 | | | | | | | | | | |
| 應修學分數 | 除個別研究及論文研討課程之外，至少須修滿廿四學分。 | | | | | | | | | | |
| 應修（應選）課程及符合畢業資格之修課相關規定 | <p>應修課程 資訊院論文研討(電機院電子專題研討或論文研討)(1學期)、資訊院個別研究(電機院專題研究或學位論文研究)(2學期，出國期間經指導教授同意除外)</p> <p>必選修專業課程(10 選 3)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">*網路安全(3 學分)</td> <td style="width: 50%;">*消息理論(3學分)</td> </tr> <tr> <td>*網路程式設計(3學分)</td> <td>*密碼理論(3學分)</td> </tr> <tr> <td>*程式安全(3學分)</td> <td>*機器學習(3學分)</td> </tr> <tr> <td>*軟體測試(3學分)</td> <td>*橢圓曲線密碼學(3學分)</td> </tr> <tr> <td>*數位積體電路(3學分)</td> <td>*容錯計算(3學分)</td> </tr> </table> <p>選修專業課程 電機院及資訊院研究所課程經指導教授同意。</p> | *網路安全(3 學分) | *消息理論(3學分) | *網路程式設計(3學分) | *密碼理論(3學分) | *程式安全(3學分) | *機器學習(3學分) | *軟體測試(3學分) | *橢圓曲線密碼學(3學分) | *數位積體電路(3學分) | *容錯計算(3學分) |
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| *數位積體電路(3學分) | *容錯計算(3學分) | | | | | | | | | | |
| 備註 | <ol style="list-style-type: none"> 1. 碩士生入學第一學期結束前需至「臺灣學術倫理教育資源中心」平台修習學術倫理課程，並通過課程總測驗達及格標準。未通過總測驗之學生不得申請學位考試。 2. 畢業前須通過一門本院研究所開授或認可之英文授課專業課程。（註：研討類型之課程除外。） 3. 其他未盡事宜，依據本學程「修業規章」辦理。 | | | | | | | | | | |

Graduate Program of Cyber Security

Academic Year 2019

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| Minimum Term of Study | One to four years for full-time students. |
| Minimum Credits | In addition to the courses of Individual Study and Seminars, students must complete 24 credits. |
| Curriculum and Regulations | <p>Required courses:</p> <ol style="list-style-type: none"> 1. Students must pass two ‘Seminar course’ or ‘Graduate Seminar’ before graduation. 2. Students must pass at least one professional course taught in English given or approved by the college of Computer Science (hereinafter referred to as the College) at NCTU (Note: Except seminar courses.) 3. Students must take ‘Individual Study’ or ‘Graduate Research’ or |

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| | <p>‘Academic Dissertation Research’ every semester and be graded by the thesis advisor in order to evaluate the research ability. At least four semesters should be passed prior to graduation.</p> | | | | | | | | | | |
| | <p>Major courses (3 out of the 10 selections below):</p> <table border="0" style="width: 100%;"> <tr> <td>* Network Security</td> <td>* Information Theory</td> </tr> <tr> <td>* Network Programming</td> <td>* Cryptography</td> </tr> <tr> <td>* Secure Programming</td> <td>* Machine Learning</td> </tr> <tr> <td>* Software Testing</td> <td>* Elliptic Curve Cryptography</td> </tr> <tr> <td>* Digital Integrated Circuits</td> <td>* Fault Tolerant Computing</td> </tr> </table> | * Network Security | * Information Theory | * Network Programming | * Cryptography | * Secure Programming | * Machine Learning | * Software Testing | * Elliptic Curve Cryptography | * Digital Integrated Circuits | * Fault Tolerant Computing |
| * Network Security | * Information Theory | | | | | | | | | | |
| * Network Programming | * Cryptography | | | | | | | | | | |
| * Secure Programming | * Machine Learning | | | | | | | | | | |
| * Software Testing | * Elliptic Curve Cryptography | | | | | | | | | | |
| * Digital Integrated Circuits | * Fault Tolerant Computing | | | | | | | | | | |
| | <p>Selective courses: The application must be approved by the thesis advisor, for the credits to be accepted as part of the graduation credits.</p> | | | | | | | | | | |
| <p>Note</p> | <ol style="list-style-type: none"> 1. Students should register in the course of “Academic Research Ethics Education” during their first semester. Students who don’t pass the final assessment of the course can’t apply for their degree exam. 2. Matters not covered by this contract shall be settled will be executed in accordance with the “Regulations on Academic Studies for Master Program Students” for the Graduate Program of Cyber Security. | | | | | | | | | | |