

## Required Credits for Graduate Students-2020 Fall Semester

| 系所別  | 碩士班<br>Master           | 博士班<br>Ph.D.                         | 逕讀博士<br>Direct to<br>Ph.D. |
|--|-------------------------|--------------------------------------|----------------------------|
| 先進光源碩士學程工科組<br>Graduate Program in Science and Technology of<br>Synchrotron Light Source-Engineering and System<br>Science | 28                      | 22                                   | 30                         |
| 先進光源碩士學程物理組<br>Graduate Program in Science and Technology of<br>Synchrotron Light Source-Physics                           | 24                      | 18                                   | 30                         |
| 數學系<br>Department of Mathematics   | 24                      | 18                                   | 30                         |
| 統計所<br>Institute of Statistics   | 34 (105起,<br>104-99為32) | 24                                   | 30                         |
| 物理系<br>Department of Physics   | 24                      | 18                                   | 30                         |
| 天文所<br>Institute of Astronomy  | 24                      | 18                                   | 30                         |
| 化學系<br>Department of Chemistry   | 24                      | 18                                   | 30                         |
| 計科所<br>Institute for Computational and Modeling<br>Science   | 26                      |                                      |                            |
| 生資所<br>Institute of Bioinformatics and Structural<br>Biology   | 24                      | 18                                   | 30                         |
| 生技所<br>Institute of Biotechnology  | 24                      | 18                                   | 30                         |
| 分子所<br>Institute of Molecular and Cellular Biology   | 24                      | 18                                   | 30                         |
| 分子醫所<br>Institute of Molecular Medicine  | 24                      | 18                                   | 30                         |
| 系神所<br>Institute of Systems Neuroscience   | 24                      | 18                                   | 30                         |
| 跨領域神經科學博士學位學程(台灣聯合大<br>學系統)<br>International Ph.D. Program in<br>Interdisciplinary Neuroscience                            |                         | 18                                   | 30                         |
| 生技產業博士學位學程<br>Ph.D Program In Bioindustrial Technology   |                         | 18                                   | 30                         |
| 材料系<br>Materials Science Engineering   | 26                      | 20                                   | 34                         |
| 化工系<br>Chemical Engineering  | 24                      | 22                                   | 34                         |
| 動機系<br>Power Mechanical Engineering  | 26                      | 20                                   | 38                         |
| 工工系—工工組<br>Industrial Engineering and Engineering<br>Management  | 26                      | 26 (104起,<br>102-103為29,<br>101前為30) | 30                         |
| 工工系—工管組<br>Industrial Engineering and Engineering<br>Management  | 26 (97起,原30)            |                                      |                            |
| 工工系—在職專班<br>Industrial Engineering and Engineering<br>Management   | 30                      | --                                   | --                         |
| 奈微所<br>Department of Nanotechnology  | 24(98起,原26)             | 18(98起,原20)                          | 30                         |

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|--|---------------|-----------------------------|--------------------------------|
| <b>Nanoengineering and Microsystems</b>  |               |                             |                                |
| 資通訊熱流與電聲科技產業碩士專班 Master program of thermal management and electroacoustics for information technology                  | 26            |                             |                                |
| 資通訊科技產品智慧設計與控制產業碩士專班 Industry-Oriented Master Degree Program on Intelligent Design and Control for ICT Products        | 26            |                             |                                |
| 智慧生產與智能馬達電控產業碩士專班 Intelligent Manufacturing & Intelligent Motor Electronic Control Master Program of Industry          | 26            |                             |                                |
| 資通訊控制與熱流產碩專班 Industry-Oriented Master Degree Program on Intelligent Design, Control and Thermal fluid for ICT Products | 26            |                             |                                |
| 智生製造產碩專班 Intelligent Production and Intelligent Manufacturing Master Program of Industry                               | 26            |                             |                                |
| 前瞻功能材料產業博士學位學程 Ph. D. Program in Prospective Functional Materials Industry   |               | 20                          | 34                             |
| 資 工 系<br>Department of Computer Science  | 24            | 18                          | 30                             |
| 資 應 所<br>Institute of Information Systems and Applications   | 24            | 18                          | 30                             |
| 電 機 系<br>Department of Electrical Engineering  | 26            | 18                          | 30                             |
| 電 子 所<br>Institute of Electronics Engineering  | 26            | 18                          | 30                             |
| 通 訊 所<br>Institute of Communications Engineering   | 26 (102起,原24) | 22 (102起,原18)               | 34 (102起,原20)                  |
| 光 電 所<br>Institute of Photonics Technologies   | 24 (102起,原28) | 18 (108起,107為22, 107以前為18)  | 30 (108起,102-107為34, 102以前為36) |
| 光電博士學位學程 (台灣聯合大學系統) International Ph.D. Program in Photonics(University System of Taiwan)                              | --            | 18 (108起, 107為22, 107以前為18) | --                             |
| 社群網路與人智計算國際研究生博士學位學程 Social Networks and Human-Centered Computing  | --            | 18                          | --                             |
| 資訊安全研究所 Institute of Information Security  | 24            |                             |                                |
| 工 科 系<br>Department of Engineering and System Science  | 28            | 22                          | 34                             |
| 醫 環 系<br>Department of Biomedical Engineering and Environmental Science  | 24            | 24 (107起, 原26)              | 36 (107起, 原38)                 |
| 核 工 所<br>Institute of Nuclear Engineering and Science  | 25(108起, 原28) | 22                          | 34                             |
| 分析與環境科學研究所 Institute of Analytical and Environmental Sciences  | 24            |                             |                                |
| 歷 史 所<br>Institute of History  | 24            | 18                          | 30                             |
| 語 言 所  | 28            | 24                          | 30                             |

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|---|---|--------------------------------------|----------------------------|
| Institute of Linguistics  |   |                                      |                            |
| 中文系<br>Department of Chinese Literature   | 24  | 18                                   | 30                         |
| 外語系<br>Department of Foreign Languages and Literature                             | 27  | --                                   | --                         |
| 社會所<br>Institute of Sociology   | 24  | 29 (103起,96前為41,97-99為40,100-102為32) | 32 (100起,96前為41,97-99為40)  |
| 人類所<br>Institute of Anthropology  | 24  | 30                                   | 36                         |
| 哲學所<br>Institute of Philosophy  | 28  | --                                   | --                         |
| 台文所<br>Institute of Taiwan Literature   | 30  | 24                                   | 33                         |
| 台研教碩士專班<br>Graduate Program on Taiwan Studies                                     | 24  | --                                   | --                         |
| 文化研究碩士學位學程<br>International Graduate Program in Inter-Asia Cultural               | 24  | --                                   | --                         |
| 華文文學研究所<br>Institute of Sinophone Studies   | 30  |                                      |                            |
| 經濟系<br>Department of Economics  | 27 (96起,原24)  | 33 (98起,原27)                         | 39 (98起,原36)               |
| 科管所<br>Institute of Technology Management   | 45  | 18(106起,原24)                         | 30(106起,原36)               |
| 經營管理碩士專班<br>MBA   | 39(100起,原45)  | --                                   | --                         |
| EMBA 高階經營管理碩士專班   | 39(100起,原45)  | --                                   | --                         |
| IMBA 國際專業管理碩士專班   | 44(109起,原45)  | --                                   | --                         |
| 科法所<br>Institute of Law for Science and Technology                                | 36(甲) (99起,原83)<br>36(乙)  | 18                                   | 40                         |
| 計財系<br>Department of Quantitative Finance   | 36(甲) (105起,104-98為39,97為42,96為45)<br>33(乙) (105為36,104-97為33,97前為36) | 18                                   | 30                         |
| 服科所<br>Institute of Service Science   | 36 (107起,原38;98起,原36)   | 24                                   | 30                         |
| 學科所<br>Institute of Learning Sciences   | 30 (106起,原26)   |                                      |                            |
| 醫工所<br>Biomedical Engineering   | 24  |                                      |                            |
| 環境科技博士學位學程<br>International Ph.D. Program in Environmental Science and Technology |   | 24 (109起,原26)                        | 38 (107起,原36;106起,原38)     |
| 財務金融碩士在職專班<br>Master Program of Finance and Banking                               | 39  |                                      |                            |
| 公共政策與管理碩士在職專班<br>Master Program of Public Policy and Management                   | 35  |                                      |                            |

研究生畢業所需學分數

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|--|--------------------------------------|---------------------|----------------------------|
| E M B A 深 圳 境 外 專 班<br>EMBA Shenzhen   | 36                                   |                     |                            |
| E M B A 馬 來 西 亞 境 外 專 班<br>E M B A i n M a l a y s i a   | 36                                   |                     |                            |
| 跨院國際博士學位學程<br>International<br>Intercollegiate Ph.D.<br>P r o g r a m  | 106 學年度前                             | 24                  |                            |
|  | 一般組(107 起)                           | 24                  | 30                         |
|  | 人文組(107 起)                           | 24                  | 30                         |
|  | 教育與公共政策組<br>(107 起)                  | 22 (108 起, 原<br>18) | 無逕博                        |
|  | 人工智慧組(107 起)                         | 22                  | 30                         |
|  | 藝術與創新科技組<br>(108)/科技藝術組<br>(109 起)   | 22                  | 30                         |
|  | 醫學組(109 起)                           | 24                  |                            |
|  | 智慧製造與數位決策<br>組(109 起)                | 22                  |                            |
| 跨院國際碩士學位學程<br>International<br>Intercollegiate MS<br>P r o g r a m   | 106 學年度前                             | 30                  |                            |
|  | 華語教學組(107 起)                         | 30                  |                            |
|  | 藝術與創作科技組<br>(107 起)/科技藝術組<br>(109 起) | 24                  |                            |
| 全球營運管理碩士雙聯學位學程<br>Dual Master Program for Global<br>Operation Management   | 30                                   |                     |                            |
| 智慧製造跨院高階主管碩士在職學位學程<br>Executive Cross-Discipline Master<br>Program for Intelligent Manufacturing                                 | 31                                   |                     |                            |
| 特 教 系<br>Department of Special Education   | 30                                   |                     |                            |
| 體 育 系 / 運 科 系 ( 1 0 9 起 )<br>Department of Physical<br>Education/Department of Kinesiology (From<br>109))                        | 31                                   |                     |                            |
| 體育系碩士在職專班/運科系碩士在職專班<br>In-service Master Program of Physical<br>Education/In-Service Master Program of<br>Kinesiology (From 109) | 28 (109 起, 原<br>32)                  |                     |                            |
| 數 理 所<br>Graduate Institute of Mathematics and<br>Science Education  | 33                                   |                     |                            |
| 數 理 所 碩 士 在 職 專 班<br>Mathematics & Science Education Master<br>Inservice Program   | 32                                   |                     |                            |
| 學前特殊教育碩士在職學位學程<br>Master Program in Early Childhood Special<br>Education   | 32                                   |                     |                            |
| 藝 設 系<br>Department of Arts and Design   | 32                                   |                     |                            |
| 藝 設 系 在 職 專 班<br>In-service Master Program of Arts<br>Education for Teachers   | 32 (隔年招生)                            |                     |                            |
| 音 樂 系<br>Department of Music   | 30                                   |                     |                            |
| 幼 教 系<br>Department of Early Childhood Education   | 31(107 起,原<br>34)                    |                     |                            |
| 幼 教 系 碩 士 在 職 專 班<br>Master Program in Early Childhood<br>Education for In-service Practitioners                                 | 31(107 起,原<br>34)                    |                     |                            |

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| 心 諮 系<br>Department of Educational Psychology and<br>Counseling  | 32(甲)<br>26(乙) <sub>(107<br/>起,原 32)</sub> | 32           |                            |
| 心諮系碩士在職專班-輔導諮商組<br>Division of Guidance and Counseling,<br>In-service Master Program of Educational<br>Psychology and Counseling                         | 32   |              |                            |
| 心諮系碩士在職專班-工商心理組<br>Division of Industrial and Organizational<br>Psychology, In-service Master Program of<br>Educational Psychology and Counseling        | 32   |              |                            |
| 學 科 所 ( 1 0 6 學 年 度 起 )<br>Institute of Learning Sciences and<br>Technologies  | 30   |              |                            |
| 教 科 系<br>Department of Education and Learning<br>Technology  |  | 30           |                            |
| 教 科 系 - 課 程 與 教 學 組<br>Department of Education and Learning<br>Technology  | 30   |              |                            |
| 教 科 系 - 行 政 與 評 鑑 組<br>Department of Education and Learning<br>Technology  | 30   |              |                            |
| 教 科 系 課 程 與 教 學 碩 士 在 職 專 班 ( 甲 )<br>In-service Master Program of Curriculum<br>and Instruction  | 33   |              |                            |
| 教 科 系 教 育 行 政 碩 士 在 職 專 班<br>In-service Master Program of Educational<br>Administration  | 33   |              |                            |
| 教 科 系 課 程 與 教 學 碩 士 在 職 專 班 ( 乙 )<br>( 金 門 專 班 )<br>In-service Master Program of Curriculum<br>a n d I n s t r u c t i o n                               | 32   |              |                            |
| 英 教 系<br>Department of English Instruction   | 30   |              |                            |
| 環 文 系<br>Department of Environmental and Cultural<br>Resources   | 33 <sub>(108起,原<br/>32)</sub>              |              |                            |
| 環文系社區與社會學習領域碩士在職專班<br>In-service Master Program of Community<br>Development and Social Studies,<br>Department of Environmental and Cultural<br>Resources | 33 <sub>(108起,原<br/>32)</sub>              |              |                            |
| 臺 語 所<br>Institute of Taiwan Languages and<br>Language Teaching  | 32   | 32           |                            |
| 前瞻功能材料產業博士學位學程<br>Ph. D. Program in Prospective Functional<br>Materials Industry   |  | 20           | 34                         |
| 華德福教育碩士在職學位學程<br>Master's Program in Waldorf Education   | 24   |              |                            |