logoNational Chung Cheng University

Department of Information Management

Ph.D. Program General Requirements

1. Prerequisites (3 courses):
2. Full-time students: (a) System Analysis and Design,
3. Database Management, and
4. Data Communications and Networks
5. Part-time students: (a) System Analysis and Design,
6. Database Management, and
7. Data Communications and Networks

2. Course Required for Graduation: 39 credit hours for full-time students and 24 credit hours for part-time students.

Ph.D. courses are separated into four fields: Research Methodology, Information Management, Information Technology, and Medical Information Management. Research Methodology and Information Management are common required fields. Major and minor fields of study could be one of the following three combinations.

Major and Minor field of study combinations

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| Major | Minor |
| Information Management | Information Management or Medical Information Management |
| Information Technology | Information Management |
| Medical Information Management | Information Management |

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| Course Requirements for Research Methodology Field   |  |  |  | | --- | --- | --- | |  | Research Methodology Field | | |  | Required | Elective | | Full-time Students | 2 courses (Advanced Research Method and Advanced Statistics) | One course, recommended by the dissertation advisor or Ph.D. committee | | Part-time Students | 1 course (Advanced Research Method) |  | |
| Course Requirements for Major and Minor Field of Study   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  | | | | |  | Major Fields | | Minor Fields | | | Full-time Students | Major | Minor | Major | Minor | | 2 courses | 4 courses | 2 courses | 1 course | | Part-time Students | 2 courses | 3 courses | 2 courses |  |   \*Please refer to Appendix I for the listing of the courses.  \*\*The core courses can be revised by the Ph.D. Committee if a student had taken the same/equivalent courses in the master program. |
| 1. 3. Qualifying Examination 2. Two courses in total, one from each course category according to the major and minor field combination.   Qualifying Examination Course Categories   |  |  |  | | --- | --- | --- | | Major Field | Minor Field | Courses | | Information  Management | Technology  Information | Information Technology and Decision Theory  Advanced Management Information Systems | | Advanced Software Engineering  Advanced Data Communications & Networks | | Medical  Information  Management | Information Technology and Decision Theory  Advanced Management Information Systems | | Advanced Health Informatics  Health Knowledge Discovery and Management | | Information  Technology | Information  Management | Information Technology and Decision Theory  Advanced Management Information Systems | | Advanced Software Engineering  Advanced Data Communications & Networks | | Medical  Information  Management | Information  Management | Information Technology and Decision Theory  Advanced Management Information Systems | | Advanced Health Informatics  Health Knowledge Discovery and Management |  1. A student can take the qualifying examination no more than twice. 2. A student must first take the qualifying examination before using journal publication to waive a qualifying exam. They can choose to publish an article on an SSCI journal or on any journal listed in Appendix 2. 3. 4. Publications: Two articles satisfying the criteria below. 4. At least one written in English and is published on a foreign journal. 5. Both articles published on TSSCI, SSCI, or SCI journals. 6. The student is the first author, excluding his/her dissertation advisor, of at least one of these two articles. 7. The affiliation of the student must be our department. 8. Each article is eligible for only one student.   5. A doctoral dissertation written in English.  6. 6.English Proficiency: Meeting the minimum requirements of one of the following certified English tests  (1) TOEFL-ITP: 550,  (2) TOEFL-IBT: 80,  (3) GEPT: Primary stage of High-Intermediate level,  (4) TOEIC: 750,  (5) IELTS: Level 6.0,  (6) FLPT: 195,  (7) (BULATS)ALTE: Level 3,  (8) Cambridge Main Suite: First Certificate in English (FCE).  (9) Foreign students must attain a Chinese language proficiency of at least the B2 advanced level of CEFR before graduation. |
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Appendix1: Ph.D. Courses

Ph.D. Courses

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| **Core courses**  **(Research Methodology)** | **Prerequisite**  (prerequisite grade must be 70 or above) |
| 1. Advanced Research Method |  |
| 1. Multivariate Data Analysis   (Full-time students only) |  |
| **(Information Technology)** |  |
| 1. Advanced Data Communications and Networks | Data Communication and Networks |
| 1. Advanced Software Engineering | Database Management,  System Analysis and Design |
| **(Information Management)** |  |
| 1. Information Technology and Decision Theory |  |
| 1. Advanced Management Information Systems |  |
| **(Medical Information Management)** |  |
| 1. Advanced Health Informatics |  |
| 1. Health Knowledge Discovery and Management |  |

Note：

1. Credits waiver of prerequisites must be submitted within 10 days of the start of the first semester of the admission and related certification should also be enclosed.

2. Prerequisites will not be counted as graduation credits.

Appendix 2: Listing of the Journals for Substituting Qualifying Examination

Journals for Substituting Qualifying Examination

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| MIS Category A journals |
| * + - 1. ACM Computing Surveys (ISSN: 0360-0300)       2. ACM Transactions on Computer-Human Interaction (ISSN: 1073-0516)       3. ACM Transactions on Database Systems (ISSN: 0362-5915)       4. ACM Transactions on Information Systems (ISSN: 1046-8188)       5. ACM Transactions on Modeling & Computer Simulation (ISSN: 1049-3301)       6. ACM Transactions on Software Engineering and Methodology (ISSN: 1049-331X)       7. Communications of the ACM (ISSN: 0001-0782)       8. Decision Sciences (ISSN: 0011-7315)       9. Decision Support Systems (ISSN: 0167-9236)       10. European Journal of Operational Research (ISSN: 0377-2217)       11. IEEE Transactions on Knowledge and Data Engineering (ISSN: 1041-4347)       12. IEEE Transactions on Software Engineering (ISSN: 0098-5589)       13. IEEE Transactions on Systems, Man, and Cybernetics: Systems (ISSN: 2168-2216)       14. IEEE Transactions on Cybernetics (ISSN: 2168-2267)       15. Information & Management ( ISSN: 0378-7206)       16. Information Systems Research (ISSN: 1047-7047)       17. International Journal of Electronic Commerce (ISSN: 1086-4415)       18. International Journal of Information Management (ISSN: 0268-4012)       19. International Journal of Human-Computer Studies (ISSN: 1071-5819)       20. Journal of Management Information Systems (ISSN: 0742-1222)       21. Journal of Organizational Computing & Electronic Commerce (ISSN: 1091-9392)       22. Journal of the AIS (ISSN:1536-9323)       23. Journal of the American Medical Informatics Association (ISSN (printed): 1067-5027. ISSN (web): 1527-974X)       24. Management Science (ISSN: 0025-1909)       25. MIS Quarterly (ISSN: 0276-7783) |
| Information technology journals in the MIS area recommended by the Ministry of Science and Technology |
| **Research Journals**   1. IEEE Transactions on Knowledge and Data Engineering 2. IEEE Transactions on Software Engineering 3. Artificial Intelligence 4. IEEE Transactions on Systems, Man, and Cybernetics 5. IEEE Transactions on Computers 6. ACM Transactions on Information Systems 7. ACM Transactions on Database Systems 8. INFORMS Journal on Computing 9. Information Systems 10. Journal of Database Management 11. Information Processing and Management 12. IEEE-ACM Transactions on Networking 13. Journal of Systems and Software 14. Journal of the American Society for Information Science and Technology 15. Computer Journal   **Practice Journals**   1. Communications of the ACM 2. IEEE Software 3. IEEE Computer 4. IEEE Intelligent Systems 5. IEEE Internet Computing |
| Information technology journals in the MIS area recommended by the Ministry of Science and Technology |
| 1. MIS Quarterly 2. Information Systems Research 3. Journal of Management Information Systems 4. Journal of the AIS 5. Decision Sciences 6. Decision Support Systems 7. Information and Management 8. European Journal of Information Systems 9. Human-Computer Interaction 10. Information System Journal 11. Journal of Strategic Information Systems 12. International Journal of Electronic Commerce 13. International Journal of Human-Computer Studies 14. Journal of Information Technology 15. Communications of the AIS 16. Information System Frontier 17. The Data Base for Advances in Information Systems 18. Journal of Global Information Management 19. Information & Organization 20. Journal of Organizational Computing and Electronic Commerce 21. Information Technology and People 22. Information Technology and Management 23. The Information Society 24. Journal of Global Information Technology Management 25. Electronic Markets 26. Information Resources Management Journal 27. Journal of Information Technology Theory and Application 28. Electronic Commerce Research and Applications 29. Information Systems Management 30. Journal of Organizational and End User Computing |