

國立中央大學太空及遙測研究中心  
環境科技博士學位學程(台灣聯合大學系統)修業辦法  
Academic Regulation for

International Ph.D. Program in Environmental Science and Technology (University  
System of Taiwan) at National Central University

104.12.02 學術會議通過  
Passed in Academic Committee on Dec. 2, 2015  
105.05.12 太遙中心會議通過  
Passed in Center's Meeting on May 12, 2016  
106.04.10 學術暨課程聯席會議通過  
Passed in Curricula and Academic Committee on Apr. 10, 2017  
106.06.20 太遙中心會議通過  
Passed in Center's Meeting on Jun. 20, 2017  
106.10.11 教務會議核備  
Reported to the Academic Affairs Meeting on Oct. 11, 2017  
111.08.16 學術暨課程聯席會議通過  
Passed in Curricula and Academic Committee on Aug. 16, 2022  
112.01.12 太遙中心會議通過  
Passed in Center's Meeting on Jan. 12, 2023  
112.03.15 教務會議核備

第一條 本辦法依本校「博士班、碩士班研究生學位考試細則」第二條規定訂定之。

Article 1 These regulations are provided in accordance with Article 2 of the *NCU Rules Governing the Master's and Doctoral Degree Qualifying Exam and Thesis Defense*.

第二條 修業年限以二至七年為限

Article 2 Doctoral students are expected to complete their course of study in **two-to-seven** academic years.

第三條 畢業學分

- 一、至少應修滿 18 學分，其中包含本學程訂定之必修科目學分；書報討論不計入畢業學分。
- 二、在入學前修習過本學程認可的博士班科目課程者，得依本學程「學分抵免辦法」之規定辦理抵免申請。

Article 3 Credit Hours

- I. Completion of **18** credit hours is required, including credit hours of compulsory courses besides the Seminar.
- II. Students have taken and passed the related doctoral courses can be waived in accordance with the Regulation of Credit Waiver of the program.

第四條 修課規定

- 一、必修科目：環境科學與工程特論、環境污染與健康風險特論、環境監測與分析特論(3 選 2) 共 6 學分及 4 學期書報討論。
- 二、選修科目：選課範圍以台灣聯大四校當學期公佈之研究所課程表為準。

Article 4 Curriculum

- I. Compulsory courses: Students are required to take courses from **two out of the following three courses**: Special Topics on Environmental Science and Technology (3 credits), Special Topics on Environmental Pollution and Health Risk (3 credits), Special Topics on Environmental Monitoring and Analysis (3 credits); and Seminar for four semesters.
- II. Elective courses: Students must take 12 or more credits from courses related to their field of study. Elective courses shall follow the graduate curriculum announced each semester at the University System of Taiwan.

## 第五條 指導教授

- 一、指導教授以台灣聯大系統內之 2 位教授跨校共同指導為原則，即 1 位主要指導教授及 1 位跨校指導教授，直接負責該生之全程學業輔導，含選課、閱讀、研究實驗、論文撰寫等。
- 二、主要指導教授由本學程專任或相關支援系所教師擔任，於入學當學年結束前繳交指導教授選定同意書，選定後未經該指導教授同意不得擅自更換指導教授。

## Article 5 Advisor

- I. Each doctoral student must have a mutually-agreed-upon primary advisor, who is a current faculty in the University System of Taiwan. Co-advisor is permitted and indeed encouraged. The advisor is responsible for the student's research, including but not limited to the Qualifying Exam, thesis proposal and dissertation, as well as academic progress through the program's other requirement.
- II. The primary advisor must be the faculty of the program or other supporting departments/institutes at the National Central University. Doctoral students should submit the "Confirmation Form for Thesis Advisor" by the end of first academic year of enrollment.  
Doctoral students may not change advisor without the original advisor's approval.

## 第六條 博士候選人資格考核

- 一、應考條件：修畢本學程規定之必修科目，且符合學分要求者。
- 二、資格考核應於博士班修業第 3 學年內完成，未完成者，應予以退學。若因生育、傷病或其他事故導致無法於期限前完成者，應以個案方式提出申請。
- 三、考核不及格者在規定期限內，得重考一次。仍不及格者，應予退學。
- 四、資格考核之申請、撤銷、成績登錄，悉依本學程相關規定辦理。
- 五、資格考考核委員：
  - (一) 由指導教授提名 5 名至 7 名考核委員，經學程主任同意並指定其中一名為召集人，指導教授本人不得為召集人。
  - (二) 資格考核委員資格比照本校「博士班、碩士班研究生學位考試細則」相關規定辦理。
- 六、考核：
  - (一) 筆試：分為必選考科及專業考科。每學期舉辦一次，欲參加之學生須於開學註冊時向學程提出申請。每一考科筆試成績以 100 分為滿分，70 分為及格，考科命題內容如下：
    1. 必選考科：環境監測與分析特論
    2. 專業考科：由資格考考核委員命題
  - (二) 研究計畫口試：筆試通過後才得進行口試。時間由資格考核委員會決定，惟須 1 個月前提出申請。於 1 星期前將博士修習期間所欲進行之研究計畫書提交各資格考核委員。考核成績以 3 分之 2 (含) 以上委員通過為及格。
  - (三) 於限期內通過資格考核者，即列名為博士學位候選人。

## Article 6 Qualifying Exam

- I. Eligibility: Doctoral students must complete coursework and credit requirements.
- II. Doctoral students must sit for their Qualifying Exam by **the end of their third academic year**; otherwise, shall be asked to withdraw from the University. A doctoral student who did not complete the Qualifying Exam by the required deadline due to pregnancy, serious illness or incidents may file for extension.
- III. A Doctoral student who fails the Qualifying Exam on the first attempt will be given an

opportunity to retake the second attempt by the designated deadline. A doctoral student who fails the Qualifying Exam for the second time will be required to withdraw from the PhD program.

IV. The application, revocation, or results submission of Qualifying Exam are complied in accordance with the University regulation.

V. Qualifying Exam Committee

A. The Qualifying Exam committee is assembled by the student in consultation with his/her advisor and composed of the advisor and at least four other members. The program director will approve and nominate a Chair for the exam (The committee chair may not be the student's advisor).

B. All committee members' qualifications are in accordance with the "NCU Rules Governing the Master's and Doctoral Degree Qualifying Exam and Thesis Defense."

VI. Examination

A. The **Comprehensive Exam (written)** consists of two subjects: compulsory and professional. The exam will be offered once a semester; students should apply and notify the program office in the beginning of semester. The total score is 100 percent for each exam, and the passing score is 70 percent. The topic of each exam is as following:

1. Compulsory: Special Topics on Environmental Monitoring and Analysis
2. Professional: The topics will be assigned by the committee members

B. The **Proposal Defense (Oral)**: Doctoral students shall take their proposal defense after successfully completing the comprehensive exam. The examination date and time will be determined by the committee members, and doctoral students are responsible for submitting the application to the program office at least one month prior to the scheduled oral examination date. The written proposal should be submitted to the committee members at least one week prior to the oral examination.

C. Only students who successfully pass the qualifying exam may refer to themselves as PhD candidates.

#### 第七條 學位考試

一、 博士學位候選人，應於校曆規定期限內，填妥學位考試申請表，檢附指導教授推薦函、歷年成績單正本、資格考核及格證明，及下列第二項其他條件，向本學程提出學位考試申請，經指導教授及學程主任同意，送請教務處核轉校長批准後，得參加學位考試。

二、 其他條件：

(一) 博士學位候選人提出學位考試申請時，須檢附與博士論文內容相關之論文已經為期刊發表或已接受之論文抽印本或其他證明文件（論文被接受函）。

(二) 論文篇數及期刊如下：至少須有 2 篇論文已發表或已被接受，所發表之期刊皆須屬於國際科學索引(SCI 或 SSCI)列名之期刊，其中至少 1 篇該生必須為第一作者，並且兩篇均須在修業期間以本學程名義發表。

三、 學位考試委員：

(一) 學位考試委員會之組成與委員資格，依本校「博士班、碩士班研究生學位考試細則」第四條相關規定辦理。

(二) 學位考試委員經核備後，不得任意變更。

四、 論文口試：

- (一) 博士論文之撰寫必須依照規定格式，經指導教授審查認可後，於學位考試舉行兩週前，印妥需要份數(同學位考試委員人數)，連同電子版本送交各考試委員。
- (二) 口試成績以全體出席考試委員所評定分數平均計算之。如有 3 分之 1(含)以上委員評定不及格者，即以不及格論。
- (三) 論文口試成績以 100 分為滿分，70 分為及格。
- (四) 學位考試每學期舉行一次，論文口試成績不及格者而其修業期限尚未屆滿，得次學期或次學年申請重考一次。申請重考學生，仍須於修業期限內，依校曆規定期間填寫申請書，經指導教授、學程主任、教務長核可後，始得重考。重考仍不及格者，應令退學。
- (五) 學位考試成績評定時如有外加附帶條件者，經學位考試委員會認定符合附帶條件後，始完成學位考試。

## Article 7 Degree Examination

- I. Students who have obtained the approval of their thesis advisor and program director should submit the following documents to the Office of Academic Affairs within the deadline specified in the academic calendar: a copy of the student's official transcript, a copy of the completed draft of the student's thesis along with a thesis abstract, a recommendation letter from the student's thesis advisor, as well as an Application Form for the Degree Examination (Dissertation Defense). Once the application has been appraised by the Office of Academic Affairs and approved by the President of the University, the student may be permitted to defend the thesis.
- II. Other criteria
  - A. To apply the Degree Examination (Dissertation Defense), a PhD candidate should attach the verification documents of published Journal articles, or manuscripts that have been accepted for publication. The subjects of the articles should be related to the PhD candidate's dissertation.
  - B. PhD candidates are required to publish (or have been accepted for publication) at least two papers in SCI or SSCI journals and the affiliation should be the program (the graduated institute). The student should be the first author in at least one paper.
- III. The Degree Examination Committee
  - A. All committee members' qualifications are in accordance with Article 4 of the "NCU Rules Governing the Master's and Doctoral Degree Qualifying Exam and Thesis Defense."
  - B. Doctoral students may not change the committee member without the advisors' approval.
- IV. Dissertation Defense
  - A. The dissertation must comply with the NCU Regulation of Thesis Format and with the advisors' approval. PhD candidates are required to submit one hard copy and electronic copy of the dissertation to each committee member at least two weeks prior to the scheduled degree examination date.
  - B. The grade for the dissertation defense shall be the average of all the grades given by the committee members. However, if one-thirds of the members of the Degree Examination Committee give the examinee grades lower than 70 points, the examinee shall be deemed as having failed the defense.
  - C. The highest grade possible for the dissertation defense is 100 points; the lowest passing

grade is 70 points.

- D. No student may defend his or her dissertation more than once during a semester; those who fail to pass their Dissertation Defense and who have not exceeded their maximum period of study shall file for a second defense in the following semester or academic year. Moreover, a PhD candidate is required to reapply for the Degree Examination in conformity with the deadline date stated in the school calendar. A PhD candidate who fails the Degree Examination for a second time will be required to withdraw from the PhD program.
- E. In order to complete the Degree Examination, a PhD candidate, who is conditionally passes the exam, should fulfill all conditional requirements by the committee's approval.

第八條 本辦法如有未盡事宜，依教育部及本校有關規定辦理。

Article 8 Matters not mentioned herein, if any, should be conducted in accordance with the relevant regulations regulations of the MOE or the University.

第九條 本辦法經中心會議通過，報教務會議核備後實施，修正時亦同。

Article 10 The aforementioned academic regulations shall be implemented and entered into force upon approval by a meeting of the CSRSR Committee and appraisal and ratification by the Academic Affairs Committee of NCU. The same procedure applies to any amendment of these academic regulations.