

國立交通大學 「環境科技博士學位學程(台灣聯合大學系統)」修業規章

Regulations for the International Ph.D. Program in Environmental Science and Technology (University System of Taiwan) of National Chiao Tung University

1. 入學資格

符合教育部訂定之「外國學生來臺就學辦法」及「國立交通大學外國學生入學辦法」之國內外大學應屆外籍生或已畢業且具有碩士學位以上之外籍生，得透過申請程序進入本學程博士班修讀博士學位。

1. Admission Requirement

International applicants complying with Regulations Regarding International Students Undertaking Studies in Taiwan, R. O. C. promulgated by the Ministry of Education (MOE) and NCTU Regulations for Admission of International Students, who graduate in the current year at a domestic/international university or have graduated with a Master Degree or above, are eligible to apply for enrollment in the Ph.D. Program of the Institute.

2. 學分制度

- (1) 具碩士學位者須修滿十八學分，非環工相關之碩士學位者，十八學分中必須含本所課程至少九學分，及至少修滿四學期之專題討論課程。
- (2) 逕讀博士學位者之應修學分數為三十三學分(可扣除碩士期間已修學分數，最多以扣除二十四學分為限)，及至少修滿六學期(含碩士期間已修學期數)之專題討論課程。
- (3) 修本所個別研究課程之外籍生，得申請免修本所專題討論課程。
- (4) 選修所外課程如要計入畢業學分，需經過指導教授認可，至多為十二學分。
- (5) 博士班研究生因故離校未超過二年者，經入學考試重新入學時，其先前在本所修習之課程及完成之論文，在未改變研究專長時，經確認得予以承認；曾通過資格考試者，得免予資格考筆試，僅再通過資格考的口試即可。本項學分抵免以一次為限。
- (6) 本校與境外大學辦理雙聯學制所屬博士班研究生於境外大學修習及格之科目及學分，得依本校「學生抵免學分辦法」申請抵免。

2. Credit

- (1) Students with a Master Degree must complete at least 18 credits of courses; students without a Master Degree related to environmental engineering must take at least 9 credits of courses in the Institute, and at least 4 semesters for Seminar courses.
- (2) Students who enroll the Ph.D. program directly from a Master program must complete at least 33 credits of courses (no more than 24 credits taken in the Master program can be

waived), and must complete at least 6 semesters for Seminar courses (including the semesters taken in the Master program).

(3) International students who take Individual Study courses of the Institute are exempt from taking Seminar courses of the Institute.

(4) Students who take courses at other Institutes must have prior approval from his/her advisor(s), and up to 12 credits in total of such courses can be adopted into the total credits required for graduation.

(5) If a student re-enrolls in the Ph.D. program after ceasing studying for over 2 years, the courses taken and the thesis done in the Institute before may be approved by the Institute if his/her research subjects have not been altered; a student is exempt from taking the written test in the Candidate Qualification Examination if he/she has passed it before, but still has to take the oral test of the Candidate Qualification Examination again. This credit can be waived only once.

(6) Subjects and credits students have taken and passed in overseas universities that cooperate with NCTU in joint dual-degree programs can be waived in accordance with the Regulation of Transference and Waiver of Credits of the University.

3. 課程要求

(1) 必修科目：環境科學與技術特論、環境污染與健康風險特論、環境監測與分析特論(三選二)及書報討論，共六學分。

(2) 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。

3. Course Requirement

(1) Compulsory courses: Special Topics on Environmental Science and Technology, Special Topics on Environmental Pollutions and Health Risk, Special Topics on Environmental Monitoring and Analysis (must select 2 out of 3) and Seminar course; the total is 6 credit hours.

(2) Elective courses: Based on the curriculum announced in each semester by NCU, NCTU, NTHU, and NYMU (University System of Taiwan).

4. 指導教授

(1) 博士班研究生之指導教授由台灣聯大系統內之兩位教授跨校共同指導為原則，即一位主要指導教授及一位跨校指導教授。

(2) 在入學第一學期內應決定博士論文指導教授，並檢具指導教授申請書，經指導教授簽名確認後送本所備查；未能於期限內確認指導教授者，得延長至入學第二學期開學日前確定。如延長後仍無法確認者，由所務會議處理之。

(3) 研究生或指導教授任何一方，因故欲取消論文指導關係，兩方必須先溝通同意後，研究生得再另覓指導教授；若雙方無法達成共識，則由所務會議議決。

4. Advisor(s)

(1) Basically, a student will be supervised by an advisor and a co-advisor from the University System of Taiwan; that is, a student is primarily supervised by one faculty member from the Institute and a cross-school advisor from other university in the University System of Taiwan.

(2) Each student shall select a thesis advisor in the first semester and submit the Thesis Advisor Application Form signed by the advisor to the Institute Office; for students who fail to select an advisor in the designated period, the deadline for confirming an advisor can be extended to the first school day of the second semester. After extended deadline, the Institute Affairs Meeting shall cope with it for students if he/she still fails to confirm his/her advisor.

(3) A student may select another advisor if either the student or the advisor wants to cease advising with a mutual agreement after communication; the Institute Affairs Meeting shall make a coordination if both parties cannot reach an agreement.

5. 博士候選人資格考核

(1) 博士班研究生應於入學後兩年內完成資格考試為原則，至多不得超過第四年，由其指導教授擔任召集人，並組成博士班學位候選人資格考試委員會，主持資格考試事宜，若未能於期限內通過資格考試者，即令退學。

(2) 資格考試委員會設置委員三至五人，由召集人推薦校內、外與該考生研究方向有關學者、專家擔任，由所長聘任之，並向所務會議報備。

(3) 考核：

資格考試分筆試及口試兩階段，均由召集人主持，筆試以測驗研究領域及專業知識為主；口試以審查研究計劃書為主。

A. 筆試：

筆試方式採各委員分別出題，題數及考試方式不拘，每位委員出題以總分一百分為計，並以七十分為及格。超過三分之二的委員評定成績及格者，即通過筆試。若未通過筆試，重新進行第二次筆試，方式同第一次。若第二次筆試未通過，應令退學。

B. 口試：

筆試通過後即可進行口試，口試時以過三分之二委員評定及格者(及格為七十分)，即通過口試。口試不及格者，得重考一次，重考成績仍不及格者，應令退學。

(4) 資格考試及格者，始得給予博士學位候選人之資格。

5. Ph.D. Candidate Qualification Examination

(1) Students shall pass the Ph.D. Candidate Qualification Examination within 2 years after enrollment; 4 years after enrollment is the maximum period that can be allowed. A

student's advisor shall be the chairperson who convenes the Committee of a Ph.D. Candidate Qualification Examination and hosts the test. Students who fail to pass the Ph.D. Candidate Qualification Examination before the above deadline will be dismissed from school.

(2) The Committee of Candidate Qualification Examination consists of 3 to 5 members recommended by a chairperson. Committee members are scholars and experts inside/outside the University specializing in the areas related to the student's research. Committee members shall be appointed by the Director of the Institute and reported to the Institute Affairs Meeting.

(3) Candidacy Examination

The Candidate Qualification Examination is divided by two stages: a written test and an oral test. Both tests are hosted by a committee chairperson; while a written test aims at evaluating a student's professional knowledge in his/her research field, an oral test focuses mainly on the review of his/her thesis proposal.

A. Written Test

Each committee member will develop questions individually. The full marks and passing grades are 100 and 70 respectively. Each committee member can decide the number and type of questions. When more than two thirds of committee members give a student a passing grade, the student is deemed to pass the test. Students who fail the written test are allowed to retake a second written test in the same way with the first test. Students who are unable to pass the second written test will be dismissed from school.

B. Oral Test

An oral test will be conducted if a written test has been passed. When more than two thirds of committee members give a student a passing grade (at least 70), the student is deemed to pass the test. A student is allowed to retake the oral test once if he/she fails to pass it. Students who are unable to pass the second oral test will be dismissed from school.

(4) The qualification for Ph.D. Candidacy will be granted to a student as he/she passes the Ph.D. Candidate Qualification Examination.

6. 畢業要求

(1) 博士班研究生修業期限以二至七年為限，博士生於學位論文口試前，應已發表或已取得接受文件的SCI期刊論文或有審查制度之非SCI學術期刊論文，論文篇數及期刊條件須符合下列兩項中之任一項：

(a) SCI期刊論文二篇，其中至少一篇為第一作者。

(b) 為第一作者的SCI期刊論文一篇及有審查制度之非SCI學術期刊論文二篇。

專利視同為有審查制度之非SCI學術期刊論文，但至多採計一篇。以上論文需以本學程名義並與指導教授共同發表。

(2) 未通過學位考試之學生，於修業年限未屆滿前，得重考一次，且只限於重考一次，未通過第二次考試者，應令退學。

6. Graduation Requirement

(1) The period of study for the Ph.D. program is 2 to 7 years. Before applying for an oral defense, a student has to publish papers in or acquire the documents of paper acceptance from SCI journals or non-SCI journals with a peer-review system. The number of papers and the type of journals shall meet one of the following two criteria:

(a) Two papers in SCI journals with the student being the first author of at least one of the two papers.

(b) One SCI journal paper with the student being the first author, and two non-SCI peer-reviewed journal articles.

A patent is deemed as a non-SCI peer-reviewed journal article, but no more than one can be accepted. Papers of types mentioned above have to be jointly published with the advisor of a student in the name of this Program.

(2) Students who fail in the degree examination can apply for a make-up examination only once before the period of study expires; students who are unable to pass the second degree examination will be dismissed from school.

7. 博士學位考試依【學位授予法】辦理之，若有依第十二條第三、四、五款所列之委員，其資格需經所務會議認定。並需於一週前公佈考試時間、地點、論文題目及摘要。

7. The Ph.D. Degree Examination shall be done according to the Degree Conferral Law. If there are the sorts of committee members listed in Paragraph 3, 4, and 5 in Article 12, their qualification must be recognized by the Institute Affairs Meeting. Examination time, location, title of thesis and abstract of the Ph.D. Degree Examination shall be announced one week in advance of the Examination.

8. 本修業規章未盡事項需依有關法令及本校學位授予作業規章辦理。

8. Any issue not covered by the above regulations shall be coped with according to the relevant rules and processed in accordance with Regulations for Master and Doctoral Degrees Conferment of the University.

9. 本修業規章經所務會議通過後，經學院課程委員會及校課程委員會審查，再送教務會議核備後實施，修訂時亦同。

9. This Regulation shall be evaluated by the College Course Committee and the University Course Committee after it is passed by the Institute Affairs Meeting. And then the

Regulation shall be implemented upon the approval of the Meeting of Academic Affairs.
Further amendments shall go through the same procedure as well.