

國立中央大學應用地質研究所博士班研究生修業辦法
Graduate Institute of Applied Geology at National Central University
Academic Guidelines for Ph.D. Program

中華民國九十四年九月二十八日所務會議通過
中華民國九十七年七月三日所務會議修正通過
中華民國九十九年一月十二日所務會議修正通過
中華民國九十九年十月六日所務會議修正通過
中華民國一百零一年三月六日所務會議修正通過
中華民國一百零一年六月二十日教務會議核備
中華民國一百零六年元月十二日所務會議修正通過
中華民國一百零六年五月二日院課程會議修正通過
中華民國一百零六年六月十四日教務會議核備
中華民國一百零九年十月三十日所務會議修正通過
中華民國一百一十年五月十八日院課程會議修正通過
中華民國一百一十年六月二十三日教務會議核備

第一條 目的

本辦法依據本校「學則」及「博士班、碩士班學生學位考試細則」訂定之。

Art.1 Purpose

This guideline has been proposed based on the National Central University Study Regulations and Rules Governing the Master's and Doctoral Degree Qualifying Exam and Thesis Defense.

第二條 碩士班學生逕修讀博士學位申請與審查

- 一、 碩士班學生擬逕修讀博士學位者，應符合本校學生逕修讀博士學位辦法規定，於每年七月十五日前向本所提出申請。
- 二、 逕修讀博士學位申請，應經本所審查同意通過後報請學校核定。

Art.2 Application and verification of direct admissions into Ph.D. program for master student

- (1) Master students apply for direct admissions into doctoral program should conform to the “Guidelines Governing Direct Admissions into Doctoral Programs at National Central University”, and apply to Graduate Institute of Applied Geology before July 15.
- (2) Applications for direct admissions into doctoral program should be sent to the office of Academic Affairs after verified at the Graduate Institute of Applied Geology.

第三條 研修計畫書

- 一、 學生應於入學前選定指導教授，入學後由指導教授督導並查核其研修進度。
- 二、 學生應遵循本辦法及學校有關規定，如有違反規定之情形，應由指導教授提請所務會議處理。
- 三、 學生入學後應於第三學期結束前與指導教授共同擬定「研修計畫書」，邀請5~9位助理教授(含)以上或相當資格之專業研究人員組成「博士生指導委員會」，並經所務會議同意。
- 四、 學生之「研修計畫書」至少應包括研修課程、研究重點、研修進度、著作發表及各項考試資歷等資料。
- 五、 「博士生指導委員會」負責審查「研修計畫書」。
- 六、 參加產學合作培育研發菁英博士學程者(以下稱產博士生)，其博士生指導委員會中須至少有一位產業專家(含產業共同指導教授)。

Art.3 Research proposal

- (1) Ph.D. students should designate the advising professors before entrance, and the research progress should be supervised by the advising professors.
- (2) Ph.D. students should follow the guidelines of this Institute and regulations of the school to study. Advising professors should ask for the institutional conference to cope with if students violate the guidelines and regulations.
- (3) Ph.D. students should finish the “research proposal” under the guide of advising professors before the end of the third semesters, and invite five to nine members who acted as at least assistant professors or qualified researchers to form the “advising committee” which is proved at the institutional conference.
- (4) The research proposal of Ph.D. students should at least include training courses, research points, progress, publications and the examination experiences and qualifications.
- (5) “Advising committee” is responsible for examining the “research proposal”.
- (6) Attendants of Industry-University Cooperation Fostering Elite Researcher doctoral program (I.U. cooperation Ph.D.), their advising committee should at least include one industry-expert member (include industry co-advisor).

第四條 修課與修業年限

- 一、 學生於本所修業期間，除必修專題討論與專題研究各4學分，另外至少須修滿18學分。逕修讀博士學位者則另外至少須修滿34學分(內含18個博士班學分)。
- 二、 逕修讀博士學位者，自轉入博士班起，其修課應依上述規定辦理。

- 三、 學生修業期限以二至七年為限，在職生未在規定修業期限修滿應修課程或未完成學位論文者，得再延長修業年限一年。修業年限期滿仍未符合本所應修科目與學分規定者，應予退學。
- 四、 產博生除必修專題討論4學分，另外至少須修滿18學分(內含產業專題研究4學分)。

Art.4 Required credits and year of study

- (1) Ph.D. students are required to take at least 18 credits and 34 credits for direct admissions into doctoral program students (include 18 credits). This credits are exclude 4 credits of seminar and special topic research.
- (2) Direct admissions into doctoral program students should take the courses corresponding to regulations above since entering the Ph.D. program.
- (3) Ph.D. students are required to complete the degree from two to seven years. If part-time doctoral students cannot finish the required courses or degree thesis in allotted time, the stud will be extended one year at most. If the students do not meet the requirement of the course and credits will be dropped out.
- (4) Students of I.U. cooperation Ph.D. program are required to take at least 18 credits (include industry special topic research all 4 credits). These credits are exclude 4 credits of seminar.

第五條 研究與著作發表

研究期間應於學位論文考試之前，於SCIE所列之期刊(以論文接受當年之JCR為準)至少發表(含被正式接受者)兩篇與研究有關之論文，其中至少一篇須為第一作者。

Art.5 Research publications

During the study, before the Ph.D. defense, students should release at least two papers (include being formally accepted) related to their thesis on the journals listed by SCIE (based on the JCR of the year when the thesis being accepted), and at least one of the papers the student must be the first author.

第六條 資格考試與申請

- 一、 學生資格考試包括筆試與口試兩部份，資格考試成績以70分為及格。
- 二、 學生經指導教授同意後，得申請參加資格考試。資格考試之考試方式、科目、範圍、題目與評分由博士生指導委員會依該生所修課程及博士論文方向決定之。
- 三、 學生資格考試結果由本所公佈。
- 四、 學生未通過(不滿70分)第一次資格考試者，應於一年內申請重考，兩次未通過者應予退學。

- 五、 學生通過資格考試並符合本校「博士班、碩士班研究生學位考試細則」規定者，經博士生指導委員會同意，得為博士學位候選人。
- 六、 逕修讀博士學位學生未通過資格考試者，依本校「學生逕修讀博士學位辦法」規定辦理。

Art.6 Qualification Examination

- (1) The Qualification Examination of Ph.D. program includes Written and Oral, and the passing grade is 70.
- (2) Students can apply for attending the Qualification Examination after having approval by the advising professor. The exam methods, subjects, ranges, questions and grades are decoded by the advising committee members, who follow the courses and Ph.D. thesis of the students.
- (3) The exam grade will be announced by the graduate institute of applied geology.
- (4) Students should apply for reexamining in half year if the grade of the Qualification Examination is lower than 70. Attending for the Qualification Examination is at most two times, students who don't pass the Qualification Examination in two times will be dropped out.
- (5) Students, who pass the Qualification Examination, conform the "National Central University Rules Governing the Master's and Doctoral Degree Qualifying Exam and Thesis Defense" and be approved by the advising committee members, will be regarded as a Ph.D. candidate.
- (6) Students, who fail in examining the Qualification Examination, will be processed by the "Guidelines Governing Direct Admissions into Doctoral Programs at National Central University" for direct admissions into doctoral program students.

第七條 學位考試

- 一、 學生申請學位論文考試前，應已同時滿足以下三項條件：
 - (一) 通過資格考試並成為博士學位候選人半年以上。
 - (二) 修習之學分數達本所認定之 18 個學分，逕修讀博士學位者則至少修滿 34 學分(內含 18 個博士班學分)。
 - (三) 於 SCIE 所列之期刊(以論文接受當年之 JCR 為準)，至少發表(含被正式接受者)兩篇與研究有關之論文，其中至少一篇須為第一作者。
- 二、 產博生申請學位論文考試前，應已同時滿足以下三項條件：
 - (一) 通過資格考試並成為博士學位候選人半年以上。
 - (二) 修習之學分數達本所認定之 18 個學分或逕修讀博士學位者則至少修滿 34 學分(內含 18 個博士班學分)。
 - (三) 在學期間以應用地質研究所名義發表且與學位論文研究有

關之發明專利兩項，或於 SCIE 所列之期刊(以論文接受當年之 JCR 為準)至少發表(含被正式接受者)兩篇與研究有關之論文，其中至少一篇須為第一作者。

- 三、學生提出學位考試申請前，應以博士論文初稿先在本所舉行一次論文發表會。
- 四、學位考試由博士生指導委員會依據本校「博士班、碩士班研究生學位考試細則」辦理學位考試。
- 五、產博士生申請博士學位考試之口試委員須至少有二位產業專家(含產業共同指導教授)，其認定資格依本校博士班、碩士班研究生學位考試細則規定。
- 六、學位考試每學期舉行一次。已申請學位考試學生，若因故無法於該學期內完成學位考試，應於本校校曆規定學期結束日之前報請本校撤銷該學期學位考試之申請，逾期未撤銷亦未舉行考試者，得以一次不及格論。
- 七、學位論文的評分標準由博士生指導委員會決定之。
- 八、逕修讀博士學位學生，若未通過博士學位考試，且符合本校「學生逕修讀博士學位辦法」規定者，得授予碩士學位。

Art.7 Ph.D. defense

- (1) Students apply for Ph.D. defense should meet the following three conditions:
 - A. Who pass the Qualification Examination and become the Ph.D. candidate for half year or more.
 - B. Who take 18 credits or 34 credits for direct admissions into doctoral program students (include 18 credits) according to our institute regulation.
 - C. Who release at least two papers (include being formally accepted) related to their thesis on the journals listed by SCIE (based on the JCR of the year when the thesis being accepted), and at least one of the papers as the first author.
- (2) Students of I.U. cooperation Ph.D. program apply for Ph.D. defense should meet the following three conditions:
 - A. Who pass the Qualification Examination and become the Ph.D. candidate for half year or more
 - B. Who take 18 credits or 34 credits for direct admissions into doctoral program students (include 18 credits) according to our institute regulation.
 - C. Who release two inventions patents related to their thesis topic by the name of the graduate institute of applied geology during the study, or release at least two papers (include being formally accepted) related to their thesis on the journals listed by SCIE (based on the JCR of the year when the thesis being accepted), and at least one of

the papers as the first author.

- (3) Before applying the Ph.D. defense, the student should hold a presentation of the first draft in the institute.
- (4) The Ph.D. defense is held by the advising committee members based on the “National Central University Rules Governing the Master’s and Doctoral Degree Qualifying Exam and Thesis Defense”.
- (5) The members of defense committee for students of I.U. cooperation Ph.D. program, should at least include two industry-expert members (include industrial co-advisor), the qualification is identified based on the “National Central University Rules Governing the Master’s and Doctoral Degree Qualifying Exam and Thesis Defense”.
- (6) Ph.D. defense is held once per semester. Students, who applied for the Ph.D. defense, should cancel the defense before the end date of that semester according to the school calendar in case of students cannot attend or finish the defense. There will record fail one time if the defense is not held and the student does not cancel on time.
- (7) The standard of grading of Ph.D. thesis is decided by the advising committee members.
- (8) If students, who are direct admissions into doctoral programs, fail in the Ph.D. defense, they will obtain Master degree based on “Guidelines Governing Direct Admissions into Doctoral Programs at National Central University”.

第八條 畢業離所

- 一、 畢業前應依規定格式製作論文、提要之電子檔案，於離校前一週繳交。
- 二、 離校前應清理研究室及實驗室所使用之空間及設備，歸還所借用之各項設備及物品，離校申請單須經指導教授、所辦公室、各實驗室及所長簽名確認後，始可向學校辦理離校手續。

Art.8 Leave school

- (1) Students should submit regulation thesis and abstract in electronic file to school one week before leaving.
- (2) Students should clean up the space equivalents in the office and laboratory and return goods borrowed from school before leaving. The application form for leaving school should be confirmed and signed by advising professor, front office of the institute, each laboratory and director before submitting to school.

第九條 本辦法如有未盡事宜，依教育部及本校有關規定辦理。

Art.9 In case this regulation does not involve, procedures follows the related regulations of Ministry of Educations and National Central University.

第十條 本辦法經所務會議及院級會議通過，並報教務會議核備後實施，修正時亦同。

Art.10 This regulation is proved at the institutional conference and college level conference, and approved at the Academic Affairs Committee Meeting, as well as correction.