

## Requirements in the Nano-Micro Engineering Ph.D. Degree Program at National Cheng Kung University

### Doctoral Program

Admission year	Credits	Required Courses	Elective Courses	Other Requirements
Ph.D. students who enroll after the academic year of 2019 (included)	25	4 Seminar(I) 1 Seminar(II) 1 Seminar(III) 1 Seminar(IV) 1	21	<p>1. Advisor: must have 2 advisors. One major advisor from MSE and the other co-advisor from external department. The doctoral thesis and research field must be based on the major advisor's instruction. Advisor Confirmation Form should be submitted to the department office in <b>First Semester</b> when admitted to NCKU. Submit before March 15<sup>th</sup> (Spring semester)/ October 15<sup>th</sup> (Fall semester), and the Academic Committee will review it.</p> <p>指導教授：需有1位本系指導教授及1位本校外系共同指導教授。博士論文題目與研究方向須以本系指導教授為主。「指導教授簽名表」須於入學第一學期繳交，上學期入學者10/15前，下學期入學者3/15前繳至系辦，送學術小組審查。</p> <p>2. Method for Qualification Examination</p> <p>(1) Choose one of three core course ("Solid State Thermodynamics", "Advanced Characterization of Materials", "Kinetics of Materials"), and plus two institute courses agreed by the advisor and co-advisor and related to the doctoral thesis of the student (not limited the course directed by the MSE, but the participants in those two course <b>should not be less than 10 students</b>)</p> <p>(2) Submit Core Course Review Form <b>within 2 years</b> after admission, and explain the core concepts and knowledge required for thesis are covered and taught in the chosen courses. The <b>Core Course Review Form</b> should be signed by the advisor and co-advisor, and apply it before taking the courses. Submit the application before March 15th (Spring semester)/ October 15th (Fall semester), and the Academic Committee will review it.</p>

- (3) After the majority of the review committee agrees, the courses chosen by the student may be regarded as the core course required for the doctoral degree. The grade of the course must reach top 70% in the class. Students must complete within 3 years after admission otherwise he/she will be dismissed.

資格考方式：

- (1) 將現有三門核心課程的其中一門(三選一)，再加上指導教授及共同指導教授同意，且與該生博士研究題目相關的兩門研究所課程(不限本系，但修課人數不得低於10人。總共還是三門核心課程)，作為奈微博士生的核心課程與資格考試考核依據。
- (2) 須於入學後兩年內提交「核心課程審核表」，說明其論文研究所需之核心觀念與知識，於所選修之研究所課程中涵蓋與教授。「核心課程審核表」經指導教授及共同指導教授同意後，修課前完成申請，通過後不可更改。上學期於10/15前、下學期於3/15前向系辦提出，送學術小組審查。
- (3) 經審查委員多數同意後，該生所選修之課程可認定為其修讀博士學位所需之核心課程。若其修課成績達該學期全班成績之前百分之七十，則可作為抵免資格考試之依據。須於入學三年內完成抵免，否則予以退學。(107.6.11系務會議&108.4.22系務會議)

3. Foreign Language Proficiency Requirements：

- (1) Achieving GEPT Intermediate Level
- (2) Achieving 69 on the TOEFL iBT or 193 on the TOEFL CBT (TOEFL PBT 523)
- (3) Achieving 5 or higher on the IELTS
- (4) Achieving 700 or higher on the TOEIC or publish 1 additional papers in academic journals. (student should pass the defense before 2024/07/31, after that this rule will be invalid)

				<p>英文能力畢業門檻：(105.4.11 系務會議)可選擇下列任一種方式通過英文能力鑑定</p> <p>(1) GEPT全民英語能力分級檢定中級通過</p> <p>(2) TOEFL IBT 60分或CBT電腦托福193分以上（約同舊制托福523分）</p> <p>(3) IELTS 國際英語測試5.0級以上</p> <p>(4) TOEIC 多益測驗700分以上或提出3篇論文(原2篇規定再增加1篇)須於2024/07/31前完成通過畢業口試，之後不得以論文折抵英檢。(112.3.6系務會議)。</p> <p>4. Ph.D. students are required to publish at least 2 papers related to doctoral dissertation in well-known academic journals recognized by the department. 必須已在本系認可之著名學術期刊發表(含已被接受)與博士論文相關之著作至少兩篇。(111.4.25系務會議博士論文初審辦法)</p>
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*These regulations were translated from the original Chinese. In the event of any discrepancies between the two versions, the Chinese always takes precedence.*

國立成功大學材料科學及工程學系博士論文初審辦法  
NCKU Materials Science and Engineering  
Regulations on Doctoral Dissertation Preliminary Review

84.2.9 Revised  
85.3.4 Revised  
85.6.13 Revised  
92.5.12 Revised  
98.12.21 Revised  
110.3.15 Revised  
111.4.25 Revised

1. 本系為維持博士論文審查標準，進而提升學術水平，規定博士論文於正式論文口試前必須先通過初審。

In order to maintain the examination standards for doctoral dissertations and improve the academic level, the department stipulates that doctoral dissertations must pass the preliminary review before the formal defense.

2. 依本校「國立成功大學研究生學位考試細則」規定，申請學位考試應依規定格式檢送繕印論文(作品、成就證明連同書面報告、技術報告、專業實務報告)、摘要及線上論文比對系統之比對結果報告一份，經指導教授簽名同意，向所屬教學單位提出。

According to “National Cheng Kung University Enforcement Rules for Doctoral and Master’s Degree Examinations”: students are required to submit a thesis/dissertation (or a work, proof of achievement accompanied by a written report, a technical report, or a professional practice report) related to the discipline of the academic degree program, in the designated format; an abstract and an originality report from the online plagiarism detection system, in an application for degree examination, which shall be signed for approval by the thesis/dissertation advisor and submitted to the academic degree program.

3. 申請初審時須提供論文重複率比對報告，得分章完成全文比對，供初審委員審查，無比對報告不受理初審申請，比對報告須經指導教授與博士候選人共同簽名。

Applying for the preliminary review must provide an originality report, and the originality report could be completed by chapters for preliminary review committee. The preliminary review application will not be accepted without the originality report, and the originality report must be signed by the advisor and the doctoral candidate.

4. 博士候選人提出初審申請時，必須已在本系認可之著名學術期刊發表(含已被接受)與博士論文相關之著作至少兩篇。本系認可之著名學術期刊為本系教師升等辦法中B級等級(含)以上之期刊，期刊等級若有降級時，得向學術小組申請以投稿日期時已公佈之JCR期刊排名為準。在該發表之著作必須該博士候選人為單一第一作者，且指導教授為單一通訊作者，並經本系專任教師或曾經任職本系專任教師者，指導完成之連名著作。

When applying for the preliminary review, the doctoral candidate must have published (including accepted) at least two papers/works related to the doctoral dissertation in a well-known academic journal recognized by the department. The well-known academic journals recognized by the department are the journals with grade B (inclusive) or above in the regulation on faculty promotion of MSE department. If the journal grade is downgraded, an application can be made to the academic group based on the JCR journal ranking published on the date of submission. The published papers/works must be the single first author of the doctoral candidate and the advisor should be the single corresponding author, and completed under the guidance of a full-time teacher of the department or a former full-time teacher of the department.

5. 論文初審委員會由三人組成，初審委員必須具本校專任教授、副教授或助理教授資格，其中一人並擔任召集人。召集人由學術小組聘請系內一位成員擔任，其餘二位委員由召集人延請擔任。初審小組於法定期限內無法組成，則送系務會議議決。

The dissertation preliminary review committee consists of three members. The preliminary review members must be qualified as full-time professors, associate professors or assistant professors in our school, and one of them shall also serve as the convener. The convener is a member of the

department hired by the academic group, and the other two members are invited by the convener. If the preliminary review committee cannot be formed within the statutory time limit, it will be sent to the Department Affairs Council for resolution.

6. 博士論文審核之項目為確認該博士候選人為論文之主要貢獻者期刊著作審核之主要項目為該著作是否和博士論文有關，是否一稿二投及申請者是否為該著作之主要貢獻者。

The item of doctoral dissertation review is to confirm that the doctoral candidate is the main contributor to the dissertation. The main purposes of journal work review are whether the paper is related to the doctoral dissertation, whether the paper is submitted twice, and whether the applicant is the main contributor to the paper.

7. 論文初審必須於系主任接受初審申請1個月內完成。預定第二學期畢業者，最遲須於5月15日以前提出初審申請。

The preliminary review of the dissertation must be completed within 1 month after chairperson accepting the application for preliminary review. Students who plans to graduate in the second semester must submit a preliminary review application before May 15.

8. 系主任接受初審申請後，將資料轉交學術小組辦理。

After the chairperson accepts the application for preliminary review, the documents will be forwarded to the academic group for processing.

9. 初審委員得諮詢博士候選人之指導教授，請其提供本初審案之相關意見。

The preliminary review committee may consult the doctoral candidate's advisor and ask him/her to provide relevant opinions on the preliminary review case.

10. 初審結果分為符合初審辦法規定及不符合初審辦法規定二種。初審委員會以多數來決定，若無法對初審結果做出決議時，則本案應移交學術小組處理。

The results of the preliminary review are divided into two categories: those complying with the regulations of the preliminary review and those not complying with the regulations of the preliminary review. The preliminary review result shall decide by the majority of committee, and if a decision cannot be reached, the case shall be transferred to the academic group for processing.

11. 若指導教授對初審委員會之決定有異議時由學術小組召集人徵得初審召集人及指導教授同意聘請協調人負責協調，若協調不成，則送學術小組處理。

If the advisor has any objection to the decision of the preliminary review committee, the academic group convener shall obtain the consent of the preliminary review convener and the advisor to hire a coordinator to coordinate. If the coordination fails, it will be sent to the academic group for processing.

12. 初審結果若為不推薦，該博士候選人必須於初審申請日期至少 6 個月後始得重新提出初審申請。

If the preliminary review result is not recommended, the doctoral candidate must re-apply for the preliminary review at least 6 months after the preliminary review application date.

13. 博士論文通過初審後始得舉行正式口試。

After passing the preliminary review, a formal oral examination shall be held.

14. 若初審委員無法執行任務時，得經系主任同意後，由初審召集人另行聘請初審委員。

If the preliminary review committee is unable to perform the task, the preliminary review convener may hire another committee member with the approval of the chairperson.

15. 初審由系主任委託學術小組負責監督工作之進行。

The preliminary review is entrusted by the chairperson to the academic group to supervise the work.

16. 離校時須繳交論文完稿比對報告簽名單，師生共同簽名後繳交本系留存。

When leaving the school, student must submit the originality report signed by teacher and student to

the department office.

17. 本辦法經系務會議通過後實施，修正時亦同。

These Rules shall be approved by the Department Affairs Council before taking effect. Amendments shall be processed accordingly.

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