

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

### Doctoral Program

Admission year	Credits	Required Courses	Elective Courses	Dissertation	Other Requirements
Ph.D. students who enroll during the academic year of 2013 (included) and 2017 (included)	37	4 Seminar(I) 1 Seminar(II) 1 Seminar(III) 1 Seminar(IV) 1	21	12	<p>1. Ph.D. Students must complete (1) or (2) within 3 years after admission otherwise he/she will be suspended.</p> <p>(1) Publish 1 paper after enrolling the program: publish a SCI journal paper as a first author. The ranking of the field must be within 60%, and it cannot be counted as a doctoral dissertation point.</p> <p>(2) Take 3 core course “Solid State Thermodynamics”, “Advanced Characterization of Materials”, “Kinetics of Materials”, and students whose class ranking of top 70% have no need to take the qualification examination.</p> <p>博士班學生須於入學三年內完成(1)或(2)抵免資格考。</p> <p>(1) 以期刊抵免資格考：依據入學就讀後所獲得的研究成果，以第一作者發表一篇SCI期刊論文，此論文之領域排行需在60%內，且不得計算為博士學位論文點數。</p> <p>(2) 修習材料系研究所的三門核心課程「固態熱力學」、「高等材料分析」及「材料動力學」，且學期成績皆達全班前70%內，可據以抵免博士班資格考，否則予以退學。(102.9.30系務會議&amp;106.3.15奈微所學術小組會議)</p> <p>2. Foreign Language Proficiency Requirements :</p> <p>(1) Achieving GEPT Intermediate Level</p>

					<p>(2) Achieving 60 on the TOEFL iBT or 193 on the TOEFL CBT (TOEFL PBT 523)</p> <p>(3) Achieving 5 or higher on the IELTS</p> <p>(4) Achieving 700 or higher on the TOEIC or publish 1 additional papers in academic journals.</p> <p>英文能力畢業門檻：(100.9.22 系務會議 )</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（含）以上（約同舊制托福 523分）。</p> <p>(3) IELTS 國際英語測試5.0級（含）以上。</p> <p>(4) TOEIC多益測驗700分（含）以上。或提出3篇論文（原2篇規定再增加1篇）。</p> <p>3. Ph.D. students are required to publish at least 2 papers related to doctoral dissertation in well-known academic journals recognized by the department.</p> <p>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。(98.12.21 系務會議博士論文初審辦法)</p>
Ph.D. students who enroll after the academic year of 2018 (included)	37	4 Seminar(I) 1 Seminar(II) 1 Seminar(III) 1 Seminar(IV) 1	21	12	<p>1. Ph.D. Students must complete “Solid State Thermodynamics”, “Advanced Characterization of Materials”, “Kinetics of Materials” within 3 years after admission otherwise he/she will be dismissed. Students whose class ranking of top 70% have no need to take the qualification examination.</p> <p>博士班學生須在入學後三年內修習『固態熱力學』、『高等材料分析』及『材料動力學』等三科核心課程，且學期成績皆分別達全班前 70%以內可</p>

					<p>據以抵免本系博士班學能資格考試，否則予以退學(106.6.20系務會議)</p> <p>2. Foreign Language Proficiency Requirements :</p> <p>(1) Achieving GEPT Intermediate Level</p> <p>(2) Achieving 69 on the TOEFL iBT or 193 on the TOEFL CBT (TOEFL PBT 523)</p> <p>(3) Achieving 5 or higher on the IELTS</p> <p>(4) Achieving 700 or higher on the TOEIC or publish 1 additional papers in academic journals.</p> <p>英文能力畢業門檻：(105.4.11 系務會議)可選擇下列任一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)。</p> <p>3. Ph.D. students are required to publish at least 2 papers related to doctoral dissertation in well-known academic journals recognized by the department.</p> <p>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。</p>
Ph.D. students who enroll after the academic year of 2019 (included)	37	4 Seminar(I) 1 Seminar(II) 1 Seminar(III) 1 Seminar(IV) 1	21	12	<p>1. Enrollment in the academic year 2018 is a transition period, and student can choose the graduation regulations for the academic year 2018 or the academic year 2019.</p> <p>107學年度入學者屬過渡期，可選擇107學年度畢業規定或108學年度畢業規定。</p>

					<p>2. 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>3. 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 should not be less than 10 students)</p> <p>(2) Submit Core Course Review Form within 2 years after admission, and explain the core concepts and knowledge required for thesis are covered and taught in the chosen courses. The Core Course Review Form should be signed by the advisor and co-advisor, and apply it before taking the courses. Submit the application before March</p>
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15th (Spring semester)/ October 15th (Fall semester), and the Academic Committee will review it.

- (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)

4. Foreign Language Proficiency Requirements :

- (1) Achieving GEPT Intermediate Level

					<p>(2) Achieving 69 on the TOEFL iBT or 193 on the TOEFL CBT (TOEFL PBT 523)</p> <p>(3) Achieving 5 or higher on the IELTS</p> <p>(4) Achieving 700 or higher on the TOEIC or publish 1 additional papers in academic journals.</p> <p>英文能力畢業門檻：(105.4.11 系務會議)可選擇下列任一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)。</p> <p>5. Ph.D. students are required to publish at least 2 papers related to doctoral dissertation in well-known academic journals recognized by the department.</p> <p>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。</p>
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