

國立清華大學材料科學工程學系博士班研究生應行注意事項

92 年 9 月 22 日學術委員會會議修訂
92 年 10 月 16 日系務會議修訂
92 年 11 月 13 日系務會議確認通過
93 年 9 月 2 日系務會議修訂
93 年 10 月 7 日系務會議修訂
93 年 12 月 2 日系務會議通過
96 年 1 月 25 日系務會議修訂通過第 4 條第 1 項
96 年 3 月 8 日系務會議通過修訂第 3 條第 1 項
97 年 3 月 19 日系務會議通過刪除第 2 條第 2,3,4 項,增訂第 2 項
99 年 10 月 8 日學術委員會會議修訂第 3 條第 5 項
99 年 11 月 18 日系務會議修訂通過
100 年 11 月 10 日學術委員會會議修訂第 4 條第 3 項
100 年 11 月 17 日系務會議修訂及通過第 4 條第 3 項
102 年 12 月 25 日學術委員會修訂第 5 條第 3 項
104 年 3 月 5 日學術委員會修訂第 3 條第 6 項
104 年 3 月 12 日系務會議確認通過
104 年 5 月 7 日課務委員會增訂第 3 條第 4
104 年 6 月 25 日系務會議確認通過
104 年 9 月 17 日系務會議修訂
105 年 5 月 16 日學術委員會修訂第 3 條第 4 項及第 5 項
105 年 5 月 19 日系務會議確認通過
105 年 9 月 22 日系務會議確認通過
106 年 9 月 21 日系務會議修訂
108 年 9 月 19 日系務會議修訂通過
111 年 4 月 28 日系務會議修訂通過
113 年 11 月 21 日系務會議修訂通過

一、適用對象：114年度起入學之博士班研究生適用之。

二、資格考試辦法

(一)通過期限：入學三年內必須通過資格考試，否則應予退學。

(二)學生修習本系所開 3 科核心課程（1.材料動力學、2.固態熱力學、3.電子顯微鏡學或 X 光繞射結晶學）及格，或 3 科核心課程平均分數達 75 分者，即算通過資格考試。

三、修課規定：

除論文外，至少須修滿二十學分（含書報討論 2 學分），逕行修讀博士學位者，至少須修滿三十四學分（含書報討論 4 學分），其中

(一)修讀本所課程不得少於六學分。

(二)選修本系大學部（MS 科號 3 或 4 字頭）課程最多不得超過六學分。

(三)碩士班已經修過研究所課程且不在碩士班畢業學分內，可申請抵免，最多可申請抵免 9 學分。

(四)非理工科學領域之研究所課程，不計入畢業 20 學分中。如有特殊原因，可以提出申請。

(五)書報討論必修兩學期，逕行修讀博士學位者，書報討論必修四學期。

(六)每位研究生於新生入學時須參加本校環安中心舉辦之一般安全衛生教育訓練講習並通過。

本系碩士生逕行修讀博士學位者、本系及本校其他系所研究生提供在碩士班期間之上項研習證明者(三年內)，入學時不需再參加上項講習。

在未完成上項講習之前，不得開始做研究。

(七)須於入學第一學年結束前修習本校學術研究倫理教育課程。該課程採網路教學方式實施，為 0 學分之必修課程。凡修習本課程之學生，須通過課程測驗成績達及格標準；未通過者，最遲須於申請學位考試前修習通過。未完成本課程之學生，不得申請學位考試。

四、畢業論文口試：

(一)論文發表

- 1.發表的論文必須有系指導教授姓名且學生須署名本系。
- 2.用以申請口試之論文須與其博士論文有直接關係。
- 3.至少有一篇論文是以申請人為第一作者（指導教授不計排名）。

(二)論文點數：申請畢業論文口試必須符合下列條件之一：

- 1.總點數 ≥ 4 ；(Impact factor 計點以畢業生在學期間 SCI 所公佈之數據為準，並請提供數據資料)。發表之期刊論文，博士生列名在第一位者全算，第二作者為 50%，第三作者為 25%，以此類推。第一作者以外之共同作者論文所佔點數，以不超過 1/3 為原則。
- 2.SCI 列名期刊論文三篇以上（含），其中一篇必須是該領域之前 15%。
- 3.SCI 期刊四篇以上（含）。
- 4.Impact factor 4.0 以上一篇。

若學生申請適用本條文第 2,3,4 項，則該生須為第一作者。

(三)已通過第一外國語認定（符合下列條件之一）：

1. 測驗成績

- (1)CBT-TOEFL 測驗成績 180 分以上。
- (2)IBT-TOEFL 測驗成績 80 分以上。
- (3)GRE 測驗成績 234 分以上。
- (4)IELTS 測驗成績 5.5 分以上。
- (5)多益考試成績達 800 分（含）以上。
- (6)全民英語能力分級檢定測驗「中高級」初試通過。

- 2.選修本校英語課程，可選修 3 字頭（含）以上之語文課程 6 學分，且成績在 B（75 分）（含）以上。

(四)提出學位考試（口試）申請時須檢具「論文相似度比對報告」及無抄襲切結書，並於學位考試前交予考試委員審核。

(五)畢業口試之申請應在口試前三週提出。

五、其他

- (一)本系研究生不得有雙重學籍，除修讀雙聯學位外。
- (二)博士生修業年限為二至七年，在職生得延長修業年限二年。
- (三)研究生在規定時間（入學後 3 個月，即第 1 學期開始後 3 個月）內未能確定指導教授者，由系主任協助配對，額度未滿之教授優先分配。
- (四)其他未訂事項，依國立清華大學教務章則規定處理。

Requirements for MSE Postgraduate students of Ph.D. Candidates

(Confirmed by MSE council on November 21th, 2024)

1. Eligibility : Applicable to MSE Ph.D. candidates enrolling after the academic year of 2025.

2. Regulations for Qualifying Examinations:

- (1) Deadline : To be passed before the end of third school year. Otherwise, the eligibility for Ph.D. study will be dismissed.
- (2) Subjects : **"Transmission Electron Microscopy" or "X-ray Crystallography", "Thermodynamics of Solid State", "Kinetic Process of Materials"**.
- (3) Scores : Pass the above three courses or get the even points of those at least 75 scores.

3. Course Requirements :

In addition to the thesis, students must complete at least 20 credits, including 2 credits of Seminar. Students who are admitted directly to the Ph.D. program must complete at least 34 credits, including 4 credits of Seminar.

- (1) At least 6 credits must be taken in the MSE graduate courses.
- (2) Undergraduate courses (MS course numbers beginning with 3 or 4) can be included, but limited to a maximum of 6 credits.
- (3) A maximum of 9 credits of postgraduate courses taken at master's level can be considered for the credit-deduction, but only for those excluded from master's degree requirements.
- (4) Graduate courses outside the fields of science and engineering do not count toward the 20 graduation credits. Students may submit an application in special circumstances.
- (5) Two semesters of seminar credits are obligatory ; Students admitted directly to the Ph.D. program are required to complete four semesters of Seminar.
- (6) Each postgraduate student should join and pass the "Safety and Health Education discipline courses" held by Center of Environmental Protection and Safety and Health. Students who don't pass the examination are not allowed to do experiment.
- (7) All doctoral students must register for the "Education on Academic and Research Ethics" course before the end of their first year of enrollment. The course is offered online. The Course is required of all students but confers zero credit. All students taking the Course must pass the exams. Students who fail the exams must re-take the tests and complete all other Course requirements before they graduate.

4. Oral Examination of the Ph.D. dissertation :

(1) Dissertation Presentation :

- A. Published theses must have the supervisor's name and the title of our department.**
- B. Research field of theses used for applying for Oral Examination should be related to Ph.D. Dissertation.**
- C. Students apply for oral examination should at least be the first author of one of the theses.**

(2) A thesis with Impact Factor(IF) credits : Students who meet any of the requirements below are eligible to apply for the oral examination of the Ph.D. Dissertation.

A. Total IF credits ≥ 4

- a. Impact factor criterions are according to the SCI standards during the student's Ph.D. Study, the applicant should provide the SCI standards of the period.
- b. For published in journals, a Ph.D. candidate listed at the first place of authors takes all the IF credits, the 2nd takes half of the IF credits, the 3rd takes quarter, the 4th takes half quarter etc..
- c. Except the first author, all the other authors' IF credits should not be more than third of all the IF credits.

B. Three theses or above listed in the SCI index, one of the three must be published in the top 15% journal of that research field.

C. Four theses or above listed in SCI index.

D. A thesis with IF 4.0 or above listed in SCI index.

Students who meet any of the B~D requirements above should be the first author of the thesis.

(3) Passed the first foreign language examination (meeting one of the requirements below) :

A. Language Examinations:

CBT-TOEFL scores: at least 180 points.

IBT-TOEFL scores: at least 80 points.

GRE scores: at least 234 points.

IELTS scores: at least 5.5 points.

TOEIC scores: at least **800** points.

GEPT : pass the first test of High-Intermediate Level.

B. Taken 6 credits in relevant language courses with course number started at 3 and above, all with grades over Grade B (75 points).

(4) When applying for the degree examination (oral examination), students must submit a "Thesis Similarity Report" and a Declaration of Non-Plagiarism for review by the examination committee before the degree examination.

(5) Application for Oral Examination of Ph.D. Dissertation should be submitted three weeks prior to the examination.

5. Supplementary Regulations :

- (1) Postgraduate students in the MSE department are not allowed to have a dual school/department registration.
- (2) The period of Ph.D. study is 2 to 7 years; part-time study may up to 9 years.
- (3) students who have not determined an advisor within the prescribed period (three months after enrollment, i.e., three months after the beginning of the first semester) will be assisted by the Department Chair in matching with an advisor. Professors with available advising capacity will be given priority.
- (4) Students should refer to the “Academic Regulations” of National Tsing Hua University for the regulations absent in this bulletin.