

## 永續化學科技國際研究生博士學位學程規範

I. 博士班研究生入學資格，須符合下列規定：	I. Prospective Students must satisfy the following to be eligible to apply as a Ph.D. Student:
1. 得有相關學士學位或碩士學位，並經本學程招生委員會審查錄取者。	1. Has a Bachelor's or Master's degree in a related field, and got admission from the Admission Committee of the SCST program.
II. 博士班研究生修業年限規定如下：	II. Term of Study for Ph.D. Program Students as follows:
1. 博士班研究生修業期限以二至七年為限。	1. Term of study for Ph.D. Program students is two to seven years.
2. 在職進修研究生得延長修業二年。	2. Part-time students may extend term of study for two additional year.
III. 博士班研究生應修學分及成績計算規定如下：	III. Course, Credits, Grading
1. 博士班研究生至少應修二十學分，其論文學分均另計。適用畢業學分之應修與選修科目，由課程及學生事務委員會認定，請參閱修課規定。	1. Students must earn a minimum of 20 credits, excluding thesis credit. Whether course credits are counted toward graduation is determined by the Curriculum Committee of the SCST program, as specified in Course Regulation.
2. 研究生為研究需要，經課程及學生事務委員會同意，得選修他所科目，其學分並准列入畢業學分內計算。所需加修大學部相關學系科目者，其學分不得計入畢業學分內計算。	2. Courses from other institutes must be approved by the Curriculum Committee of the SCST program. Courses taken from undergraduate programs are not counted for graduation.
3. 本學程研究生學期成績採等第計分法，其成績以 B- 為及格。	3. Scores are graded on a scale where B- is a passing grade.
IV.	IV.
1. 本學程專任教師退休前二年，不得擔任博士班新生之指導教授。	1. Professors two years from retirement cannot be Advisor to new Ph.D. students.
2. 博士班研究生入學後修業第一學期結束前必須選定本學程專任教師擔任論文指導教授，未能於入學後修業第一學期結束前簽訂上項手續，經本學程之課程及學生事務委員會輔導後，仍未能於修業於次學年之九月一日前完成上項手續者，應予退學。	2. Students must have a full-time professor as their Thesis Advisor by the end of his/her first semester of enrollment. Those who fail to complete the above by September 1 in the next academic year shall, with Department consultation, will result in expulsion.
3. 若所選擇之指導教授非化工系所專任教師時，得合聘該指導教授加入學程，或由化工系系主任擔任論文共同指導教授。	3. If the Thesis Advisor is not a full time professor in the Department of Chemical Engineering, SCST may offer joint appointment to the advisor, or the chairman of the Department of the Chemical Engineering must be one of the Thesis Co-advisors.

<p>4. 在入學後修業滿三學年(僅採計修業期間共計六學期)結束前，由三位以上(含指導教授)委員(其資格比照本辦法第八條學位考試委員)組成論文研究指導委員會，並由論文指導教授擔任召集人。論文研究指導委員會應協助學生選定論文題目，輔導課業及研究，並追蹤審查研究生修業進度及成果。</p>	<p>4. Before the end of the third year, the Thesis Committee consisting of at least three persons including the advisor must be formed. The Thesis Committee may help students to decide the topic of thesis, discuss with their course works and researches, and evaluate their results.</p>
<p>5. 研究生於就讀期間，如擬終止論文指導關係或更換論文指導教授，應以書面文件向本學程提出申請，並於通知原指導教授後生效，無須經原指導教授同意。前項書面文件由本學程自訂，內容得規定研究生應履行之各項義務等。</p>	<p>5. If a graduate student intends to terminate the advisory relationship or change his/her thesis advisor during his/her studies, he/she should apply in writing to SCST program and such change of advisor will become effective after notifying the former thesis advisor; also, the consent of the former thesis advisor is not required. The abovementioned documents should be decided by SCST with the content prescribing the duties to be fulfilled by the graduate students.</p>
<p>6. 指導教授欲終止指導關係，應以書面文件，向本學程提出申請，審查結果由本學程通知研究生。終止指導關係後，本學程得協助研究生另覓指導教授。</p>	<p>6. If a thesis advisor intends to terminate the advisory relationship, he/she should apply in writing to SCST Program. The graduate student should be informed of the review results by SCST Program. After the termination of the advisory relationship, SCST Program may provide assistance to graduate students regarding advisor selection.</p>
<p>7. 研究生申請終止論文指導關係或更換指導教授時，在原指導教授提供原始構想或概念及受指導下所獲得之研究成果，須經原指導教授同意，始得作為學位論文。</p>	<p>7. When a graduate student applies for the termination of the advisory relationship with or the replacement of a thesis advisor, the original ideas, concepts, and research results obtained under the guidance of the former thesis advisor can only be used for the dissertation with the explicit consent of the former thesis advisor.</p>
<p>V. 依國立臺灣大學研究生學位授予作業規章規定，博士班研究生在提出論文以前應通過博士學位候選人資格考試。本學程博士班資格考試分為筆試(或修課、期刊論文抵免)及口試二部份。根據「永續化學科技學程博士班資格考試規定(含筆試與口試)」。博士班研究生應於入學後二年內完成資格考試為原則，至多不得超過第三年。若未能於期限內通過資格考試者，應令退學。</p>	<p>V. In accordance to NTU Graduate Degree Conferring Regulations, Ph.D. program students must first pass Ph.D. Candidate Qualifying Exam (hence forth referred to as Qualifying Exam) before submitting Thesis. Qualifying Exam consists of a written exam (can be waived with course or published papers) and an oral exam, on the basis of "Taiwan International Graduate Program of Sustainable Chemical Science and Technology Ph.D. Qualifying Exam Regulations (including written and oral exam)." In principle, students are required to pass the Qualified Exam within two years after admission. If an extension needed, the extension period is limited to one year. Missing the exam deadline will lead to expulsion from school.</p>
<p>VI. 抵免資格考筆試方案：</p>	<p>VI. Qualifying Exam can be waived under the following conditions 1. having two SCI papers (must be first author)</p>

<ol style="list-style-type: none"> <li>1. 學生發表兩篇 SCI 論文(必須為第一作者)；</li> <li>2. 學生需 4 門 SCST 核心課程修課成績及格且皆達該班前 60%時可抵免</li> <li>3. 通過化工系原 4 門筆試科目考試。</li> </ol>	<ol style="list-style-type: none"> <li>2. passed 4 SCST core courses with a ranking of top 60% in each of the class</li> <li>3. passed 4 Chemical Engineering graduate core courses that corresponds to the qualifying exam subjects.</li> </ol>
<p>本學程博士學位候選人，須具備下列條件：</p> <ol style="list-style-type: none"> <li>(a) 完成博士學位應修課程，並獲得應修學分數。</li> <li>(b) 通過博士學位候選人資格考試。</li> </ol>	<p>Ph.D. Candidates shall satisfy the following requirements:</p> <ol style="list-style-type: none"> <li>(a) Complete the required Ph.D. course work and credits.</li> <li>(b) Pass the Ph.D. Candidate Qualifying Exams.</li> </ol>
<p><b>VII.</b> 本學程之獎學金由中央研究院編列預算，提供修業期間第一年至第三年(僅採計修業期間共計六學期)學生獎學金，經本學程課程及學生事務委員會審查通過後，學生獎學金金額依台灣國際研究生學程之規定。第四年起之獎學金由該生之指導教授負擔。</p>	<p>VII. The fellowships of this program are supported by Academia Sinica for students in the first to the third years. The fellowships will be evaluated and passed by the Curriculum Committee of the SCST program, and the amounts of the fellowships follow the regulations of the Taiwan International Graduate Program. From the fourth years, the financial support will be provided by the student's thesis advisor with his/her research grant. The amount of the support will be under the discretion of the advisor.</p>
<p><b>VIII.</b> 博士學位候選人舉行博士學位考試之前，應至少有兩篇與其博士論文相關之(SCI、EI)期刊論文發表，該二篇論文之規範與第五條第二款規定相同，惟該二篇論文不得與第五條第二款用於抵免筆試之期刊論文相同。其論文須經該生之指導教授認可，合乎規定的論文條件如下：</p> <ol style="list-style-type: none"> <li>1. 必須是該研究論文的第一作者(共同第一作者論文最多列入一篇計算)，或者是通訊作者以外的第一作者。</li> <li>2. 此論文工作是在本學程博士班就讀時所完成。</li> <li>3. 所提供的論文必須經所有通訊作者同意。</li> <li>4. 指導教授或論文共同指導教授之一必須是通訊作者。</li> <li>5. 發表著作時應列名之合作單位應包含：國立臺灣大學化學工程學系、中央研究院化學研究所、及永續化學科技國際研究生博士學位學程等單位。</li> </ol>	<p>VIII. Before the oral defense, the Ph.D. Candidate must have two published papers in SCI or EI journals. The rules for the papers are the same as Rule V. However, the papers already used for waiving the written exam are not counted. The 2 papers must be approved by the Advisor. The requirements of the papers are as follows:</p> <ol style="list-style-type: none"> <li>1. Student must be the first author (for equal contribution first author, only one paper counts); or except the corresponding author, student must be the first author.</li> <li>2. Project must be done during the PhD study.</li> <li>3. Must be agreed by all corresponding authors.</li> <li>4. Either the advisor or co-advisor must be the corresponding author.</li> <li>5. In the published papers, the following institutions should be included: Department of Chemical Engineering at National Taiwan University, the Institute of Chemistry at Academia Sinica, and the Taiwan International Graduate Program of Sustainable Chemical Science and Technology.</li> </ol>

IX. 博士班研究生之博士學位考試委員會設置委員五至九人，由學程就校內外學者專家中對該博士學位候選人之研究領域有專門研究，並具備下列資格之一者，向校長推薦，由校長遴聘組成之，校內外委員均各須佔三分之一(含)以上。

1. 現任或曾任教授、副教授。
2. 中央研究院院士、現任或曾任中央研究院研究員、副研究員。
3. 獲有博士學位，在學術上著有成就者。符合下列條款者，得擔任學位考試委員：

(1) 擔任國家級研究單位(如：中央研究院、國家衛生研究院、同步輻射中心、國家奈米元件實驗室、高速電腦中心等)助研究員(含)以上。

(2) 特殊成就經提報課程及學生事務委員會審議通過者。

4. 屬於稀少性或特殊性學科，且在學術或專業上著有成就者。符合下列條款者，得擔任學位考試委員：

服務於研究單位、政府機關、企業界，獲有博士學位，且具有工作經驗至少3年(含)以上，並經課程及學生事務委員會審議通過者。

前項第三款、第四款資格之認定基準，由本學程課程及學生事務委員會訂定之。

博士班研究生之配偶或三等親內之血親、姻親，不得擔任其博士班學位考試委員。

IX. The Examination Committee of each PhD candidate must consist of five to nine members recommended to the president by the teaching institute from among the scholars and experts inside and outside of NTU specializing in the area of research or study of the applicant. These members must fulfill at least one of the following requirements. The organization of the committee shall be subject to the president's decision. The number of members from inside and outside of NTU must be no less than a third of the total number of members.

1. Is or was a professor or associate professor.
2. Is an Academician, or is or was a research fellow or associate research fellow of Academia Sinica.
3. Holds a doctoral degree, and has outstanding academic achievements. Satisfies one of the following conditions:
  - (1) Holds/has held the position of assistant researcher or higher at a national level research institution (such as: Academia Sinica, National Health Research Institutes, National Synchrotron Radiation Research Center, National Nano Device Laboratories, National Center for High-Performance Computing and others).
  - (2) Persons with exceptional achievement(s) who have been approved and recognized by Academic and Student Affairs Committee.
4. Has been researching in a rare, or special field, and has outstanding academic or professional achievements. Satisfies one of the following conditions:

Employed at a research institute, governmental office, or business; possesses a Ph.D. degree; has had at least 3 years of working experience; approved and recognized by the Academic and Student Affairs Committee.

The determination criteria of the qualifications in subsections (3) and (4) of the foregoing paragraph shall be prescribed by each degree-offering institute or program.

No committee member can be the spouse, blood relative or in-law within three degrees of consanguinity of the PhD candidate.

X. 博士學位候選人之學位考試，以口試行之，必要時亦得舉行筆試、實驗考試或以視訊方式進行，並應依下列規定辦理：

1. 研究生申請學位考試至遲須於考試日前一個月提出申請。
2. 論文考試舉行前，應完成論文原創性比對報告並供考試委員參考；於論文考試結束後由指導教授於學位考試成績資料表簽核確認。
3. 口試以公開舉行為原則，須於事前經本學程課程委員會至少三位(1/2含)委員簽名同意，始得安排口試時間，並須公佈口試時間、地點及論文題目。
4. 學位考試委員應親自出席委員會，不得委託他人為代表，博士學位考試委員會至少應有委員五人出席，始得舉行。
5. 學位考試委員會，由校長指定委員一人為召集人，但指導教授不得兼任召集人。
6. 學位考試成績，以B-(百分制七十分)為及格，A+(百分制一百分)為滿分，並以出席委員評定分數平均決定之，但博士學位考試有三分之一以上出席委員評定不及格者，學位考試成績以不及格論，不予平均。學位考試不及格者，在修業年限未屆滿前，得於次學期或次學年申請重考，重考以一次為限，仍不及格者，應予退學。
7. 論文有造假、變造、抄襲、由他人代寫或其他舞弊情事，經學位考試委員會審查確定者，以不及格論。
8. 學位考試通過後，學生應於考試當學期繳交「學位考試成績資料表」至註冊組，第一學期需於1月31日前繳交；第二學期需於7月31日前繳交。學位論文紙本之繳交期限為舉行學位考試日的次學期開學前最後一個工作日，逾期未繳交論文紙本且未達修業年限者，次學期仍應註冊。修業年限屆滿者，未於年限屆滿當學期繳交學位考試成績資料表或未於次學期開學前最後一個工作日前繳交紙本論文，應予退學。

X. Ph.D. Candidate Defense shall be conducted in the form of an Oral Defense; an additional written examination, experiment, or video conference may be held if necessary. The Defense shall be conducted according to the following rules:

1. Oral defense should be applied at least a month prior to the scheduled date.
2. The Ph.D. candidate shall first complete the “thesis originality check” and submit the result to the members of the oral defense committee before the defense date. The advisor needs to sign on the “Thesis Defense Grading Sheet” so as to confirm the thesis originality.
3. Oral Defense shall be opened to the public; signed consent by at least half of Curriculum Committee of SCST program Members is required before scheduling the Oral Defense. Date, time, location, and thesis topic shall be announced in advance.
4. Oral Defense Committee members shall attend the Defense in person. Substitutes or by proxy are not permitted. At least five members must be present to commence.
5. One member shall be appointed as the committee chair by the University President. Student’s Advisor cannot be the committee chair.
6. The passing grade and full marks of the oral defense are B- (70) and A+ (100), respectively. Evaluation must be conducted according to the average of scores given by the members attending the oral defense. A doctoral candidate is deemed failed and no average score calculated when the scores given by a third or more members attending the oral defense are below the passing grade. Students, who failed the defense and still have the spare study period, can re-apply for the oral defense once again in the next semester or academic year. The second failure of oral defense will result in expulsion.
7. An applicant will be deemed failed if the degree examination committee has found any fraud, alternation, plagiarism, ghostwriting, or other dishonest conducts regarding the applicant’s thesis.
8. Students who pass the oral defense should submit the “Thesis Defense Grading Sheet” in the same semester to the Registrar Office: prior to Jan. 31st and July 31st in fall and spring semester

	<p>respectively. Deadline of hard copies of thesis submission would be the last working day prior to the beginning of school at the immediate next semester. Students would need to register for the next semester if the submission deadline of hard copies of thesis is missed but the study period is under warranty. The expulsion will occur for students at the maximum period of study if they are unable to submit both “Thesis Defense Grading Sheet”, and hard copies of thesis before the specified dates aforementioned.</p>
<p><b>XI.</b> 博士學位論文(含摘要)以中文或英文撰寫為原則，並須符合本校學位論文格式規範。學位考試通過後一個月內應將論文摘要及全文電子檔上網建檔(依照本校圖書館學位論文摘要及全文電子檔建檔規範辦理)，並繳交論文二冊(一冊由本校圖書館陳列，一冊由國家圖書館收藏，各教學單位之收藏冊數自訂之。學位論文之保存或提供依本校學位授予法第十六條辦理。但涉及機密、專利事項或依法不得提供者，則依本校學位論文延後公開相關規定處理。</p>	<p>XI. Dissertations (and their abstracts) must be written in Chinese or English and comply with the “NTU Thesis and Dissertation Formats”. A student is required to post an electronic version of the abstract and thesis/dissertation on the university website within one month from passing the oral defense. (See “NTU Library Abstract, Thesis and Dissertation Electronic Specification” for details.) A student must also submit two copies of her/his dissertation (one displayed in NYCU Library and one submitted to National Central Library). Each teaching institute shall determine the number of copies required. The storage or provision of theses and dissertations shall be subject to Article 16 of NTU Degree Conferment Law. Notwithstanding, any content related to confidential or patent matters or the provision is prohibited by the law, shall be subject to the “NTU Regulations for Embargo of Thesis/Dissertation.”</p>

<p><b>XII.</b> 本校對已授予之博士學位，有下列情事之一者，將予撤銷，並公告註銷已頒給之學位證書</p> <ol style="list-style-type: none"> <li>1. 入學資格或修業情形有不實或舞弊情事。</li> <li>2. 論文有造假、變造、抄襲、由他人代寫或其他舞弊情事。</li> </ol> <p>依前項規定撤銷學位後，將通知當事人繳還該學位證書，並將撤銷及註銷事項，通知其他專科學校、大學及相關機關。</p>	<p>XII. NTU will cancel the doctoral degree that has been conferred to a student, and announce the cancellation of the conferred diploma certificate in any of the following situations:</p> <ol style="list-style-type: none"> <li>1. Any admission qualification fraud, or any misrepresentation or dishonesty during the study period.</li> <li>2. Any fraud, alternation, plagiarism, ghostwriting, or other dishonest conducts regarding the thesis.</li> </ol> <p>After the degree has been cancelled pursuant to the foregoing paragraph, NTU will notify the student to return his or her diploma certificate(s), and notify other colleges, universities, and relevant institutions about the cancellation.</p>
<p><b>XIII.</b> 其他事項均依國立臺灣大學學則及相關規定辦理。</p>	<p>XIII. Anything not mentioned in this document shall be administered in accordance with relevant regulations detailed by the NTU University.</p>
<p><b>XIV.</b> 本規範經學程會議通過，報院與校核備後實施。修改時亦同。</p>	<p>XIV. Articles stated in this document shall be administered after approval by Program Committee, College of Engineering and University Curriculum Committee respectively by the NTU University. Any revisions to this document thereafter shall follow the same procedure.</p>

**If any discrepancy exists between the English and Chinese texts, Chinese text prevails.**