

NTUST Departments /Graduate Institutes of Chemical Engineering Regulations and Requirements of Awarding a Doctoral Degree

1. Doctoral students are expected to complete their studies in two to seven years.
2. Doctoral students must complete 18 credits of coursework (excluding the dissertation). From 2020, students going straight into the doctoral program, or entering with an equivalent qualification, require 24 credits for graduation. Other requirements for graduation are as follows:

(1) Language Courses:

- For students admitted before Fall 2020, doctoral students (not including international students) must take 4 credits of English Language courses offered by the language center or the Department of Applied Language (course code: FE, FL). Students, who have passed the GEPT's Intermediate Level, or an equivalent test, may apply to their department/graduate institute to be exempted from this requirement.
- For students admitted after Fall 2020, doctoral students (including international students) must take 4 credits of English Language courses offered by the language center or the Department of Applied Language (course code: FE, FL) (not count as part of degree credits). Students, who have passed the GEPT's Intermediate Level, or an equivalent test, within the past 2 years, may apply to their department/graduate institute to be exempted from this requirement for their oral defense exam. Students who possess a Master's degree from the department of Chemical Engineering at NTUST are eligible for having the English requirement waived.
- Credits earn from language courses can not use to fulfill the required graduation degree.

(2) Academic Research Ethics Course: Doctoral students admitted from 2016 academic year onwards must take a course in Academic Research Ethics by the end of their first year in the doctoral program. The completion of such a course is required to apply for the Doctoral Degree Dissertation Defense Examination.

(3) Required subject-specific courses: (set by each dissertation advisor; the graduate advisor sets these courses for students who do not yet have an advisor).

- Complete 4 seminars
- Complete 2 core courses
- 18 credits of graduate courses including 2 core courses (students going straight to PhD program, or enrolling with an equivalent qualification shall have 24 credits)

Doctoral students shall ensure that courses taken in accordance with the “Course Requirements for Doctoral Students of the Department of Chemical Engineering”.

(4) Application for course credit waiver:

1. Courses to be waived shall be approved by the dissertation advisor.

2. Students who are eligible for course credit waiver include those who have completed any course on a graduate level with a grade of at least 82 or A⁻ prior to matriculation.

3. The planning committee shall serve as the review committee for course credit waiver.

4. Any matters that are not regulated shall be administered according to NTUST’s “Course Credit Waiver Regulations.”

3. Dissertation-related regulations:

(1) Students must confirm with their advisors if the subject of their planned dissertation matches the department’s field of expertise at an early stage of the dissertation-writing process. If admitted after Fall 2023, student’s thesis/dissertation topic and research objectives must be reviewed by at least 3 committees (must qualified as assistant professor or above/including advisor), and students must submit “Department of Chemical Engineering (Taiwan Tech) Opinion Sheet for Degree Thesis Professional Field Recognition” to the department office within 14 days before the add/drop deadline in the semester of their oral defense.

(2) From the academic year of 2022, the similarity report of the dissertation shall be completed and submitted to the dissertation advisor and the oral exam committee prior to the date of the oral defense. The standard of similarity score is 20% and shall not exceed 30%. The report must be attached to the final draft of the dissertation. If the similarity report is above 30% and actually causing from self-citation, students must give the proof of authorization from the publisher and mention it in the acknowledgments of thesis/dissertation. The special cases could be reviewed by the committee from the department.

(3) The dissertation defense conducted via video conferencing shall be provided with an access link and announced on the department’s website. The defense shall be recorded during the whole presentation of the student (the committee members shall show their faces). However, the advisor has right to decide whether to record for the further defense and discussion sections. A non-disclosure agreement shall be signed if necessary.

4. Doctoral students must select their dissertation advisor before the first semester begins, and then submit the “Plan of Study (POS)” and the “Dissertation Advisor

Consent Form” to the department/graduate institute office. Interactions between dissertation advisors and their doctoral students should follow the “NTUST Guidelines for the Interaction between Dissertation Advisors and Graduate Students”.

5. Doctoral students must pass the Doctoral Qualifying Exam within 2 years of enrollment in order to advance to candidacy.

- (1) Doctoral students who take two core courses (a passing grade and be in the top 60% of the class for each core course) within two years are considered to have passed the qualifying examination.

- (2) In cases where students do not pass two core courses within two years, advisors form a three to five-member committee and hold an oral examination. Students who pass the oral examination are considered to have passed the qualifying examination. Students who do not take the oral examination, or fail to achieve a passing score, are considered to have failed the qualifying examination.

The passing score for the qualifying examination is 70%, or a B-. Students who fail the qualifying examination on their first try are only permitted one subsequent attempt. Students who fail the oral examination a second time, or who fail to take it within the designated time period, will be expelled from NTUST.

6. Doctoral students, who a) have fulfilled the requirements of the department, b) passed the Doctoral Qualifying Exam, c) completed the first draft of their dissertation within the designated time period, and d) the following requirements may apply for the “Doctoral Degree Dissertation Defense Examination”:

- 1) If admitted after Fall 2025, Doctoral students must have one paper which is accepted or published by international well-known SCI journals (excluding no reward journals and publishers announced by Taiwan Tech), and also, he/she must be the first author and advisor must be corresponding author.

The Doctoral Degree Dissertation Defense Examination must be taken in accordance with the "National Taiwan University of Science and Technology Doctoral Degree Dissertation Defense Examination Regulations."

7. Full time graduate students who need a part-time job need to submit an application to be approved by both the student’s dissertation advisor and the Chairman of the department of Chemical Engineering. However, this requires that he/she gives up their scholarship and assistantship and extend a year of their studies.
8. Matters not covered by the Doctoral Program Regulations shall be handled in accordance with the University’s General Academic Regulations and relevant

laws and regulations.

9. The aforementioned regulations shall go into effect after being approved by the Department/Graduate Institute Affairs Meeting, as will any amendments.