

TIGP - CBMB

Graduation Requirements – NTHU CHEM

Effective from September 2017 and applicable to all NTHU CHEM students enrolled in and after 2017

University	National Tsing Hua University
Department	Department of Chemistry
Duration	3-7 years
Minimum Credits	20 credits in total/30 credits in total for BSc students (Excluding Mandarin courses or <i>Dissertation/Thesis</i> credits).
Required Courses (17 credits)	Discussion in Advanced Chemical Biology (I) (4 credits) Discussion in Advanced Chemical Biology (II) (3 credits) Faculty Presentation: required in term 1 of the 1st academic year (1 credit) Seminar: required for 4 semesters (4 credits in total) Colloquium: required for 4 semesters/ 6 semesters for BSc students (no credits) Teaching Practice: required for 1 semester (1 credit) Seminar I&II (Lab Rotation): required for all students <u>enrolled in and after 2017</u>. (4 credits) Ethics Course: required for all <u>PhD students enrolled in and after 2015</u> and the course has to be taken and passed by the end of the 1st academic year. Mandarin Class: required for international students or students whose first language is not Mandarin for 1 academic year. Students should pass the courses within 2 years. (6 credits required before 2019/0 credit after 2019, NOT counted towards the 20/30 credits).
Elective Specialized Courses (3 or 13 units)	Students are required to take elective specialized courses to fulfil the requirement of the minimum credits. The elective courses should be offered by the TIGP program with “TIGP” class numbers, or by the Department of Chemistry with class numbers beginning with CHEM5 and above. With confirmation from the supervisors, students can take 3 credits maximum from other departments. Students who joining the program with a bachelor’s degree should obtain at least 30 credits (including the required courses), in which at least 24 credits are graduate-level course offered by the TIGP program or the Department of Chemistry with course number CHEM5 or higher. CBMB office has the authority to decide whether a course can be counted towards specialized course credits based on the program policy.
Regulations	Qualifying Exam: Cumulative Exam (CUME) Students are required to pass the qualifying exam (CUME) within 3 years of joining the Ph.D. program. Students may choose any of the following schemes to

	pass the qualifying exam: analytical chemistry division/organic and inorganic chemistry division/biochemistry program/materials chemistry program. Reference: https://chem-en.site.nthu.edu.tw/p/406-1293-189789,r2603.php <i>Student will be granted Ph.D. candidacy after passing the cumulative exam and completing the credit and English requirements for graduation upon application.</i> Annual Progress Report Requirement Students are required to hold an annual dissertation advisory committee meeting starting in the 3rd year of the program. This report and any additional reports required by the advisor(s) should be sent to the CBMB office by 31st May every year until graduation. The student is responsible for submitting this form or an explanation from the advisor by the deadline. All students are required to submit a self-evaluation form. Students from the 4th year should submit the student assessment document as well. Students do not need to submit an annual progress report during the year they hold a pre-oral exam or the final defense, but the exemption is required. Pre-Oral Exam Students should submit an application to the program office at least two weeks before the pre-oral exam. After approval, students should submit a dissertation proposal and invite the dissertation committee for a pre-oral exam. The committee indicates approval of the dissertation proposal by providing signatures on the approval form. After completing the pre-oral, students should submit the pre-oral exam form and a committee members' approval form for 1st oral* to the CBMB office. After completing the pre-oral, students may begin writing their dissertation. *The dissertation committee should include the supervisor(s). *committee members' approval form for 1st oral is available on the NTHU-CHEM website. Oral Exam/Dissertation Defence Students can take the oral exam 1 year after passing the pre-oral exam. On applying for the oral exam, students should submit: 1. CBMB graduation application form 2. official Chinese academic transcript 3. publication(s) proof 4. English proficiency certificate 5. NTHU application form for doctoral degree exam via NTHU Academic Information Systems. 6. NTHU dissertation advisor approval form generated via NTHU Academic Information Systems. 7. statement and reports for the thesis similarity: a. Statement of thesis similarity form
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	b. Turnitin reports of introduction, experimental results, and discussions **PhD students should submit a statement of thesis similarity for the thesis committee before the oral exam. The statement must include the introduction, results and discussion sections of the thesis separately. In principle, the similarity index of his/her thesis similarity report should be below 35%. Students should also complete the authorization and set the publication date in the “NTHU Dissertations & Thesis Respository” at https://etd.lib.nthu.edu.tw/. Reference: https://chem-en.site.nthu.edu.tw/p/406-1293-92523,r2603.php The venue of the Oral Exam/Dissertation Defence should be in NTHU-CHEM. The exam committee should consist of 5-9 professors (assistant professor and above, including dissertation advisor and co-advisor from student’s registered university). The committee members will nominate the committee chair (cannot be the dissertation advisor). The committee will grade the candidates based on the dissertation content and oral exam performance. The minimum passing grade out of 100 is 70. However, the student does not pass if more than 1/3 (≥ 2 persons) of the examiners give a score lower than 70. Students will have one chance to retake the exam, which must be completed before the end of 7th academic year.
Other Graduation Requirements	Minimum Paper Requirement Students must publish SCI paper(s) as a first or second author; their advisor should be one of the corresponding authors. First author papers earn points equivalent to the impact factor; second author, 60% of the impact factor. Students must earn 3.0 points to graduate. The student should at least list his/her registered department and TIGP-CBMB as part of the affiliation in the publication(s). English Requirement Students must provide one of the following test results or take recommended English courses (3 credits) to fulfill the English requirement. ◆ TOEFL: ILP – 550, CBT – 213, iBT – 79 ◆ IELTS: 6.0. ◆ TOEIC: Listening and Reading Test – 750 ◆ Cambridge Assessment English – B2 First ◆ FLPT: Listening, Usage and Voc. & Read – 210 (each item 70) ◆ GEPT: high-intermediate level. ◆ The selected English training courses (3 credits) include: (a) Technical and Scientific English Writing, (b)Public Speaking and Presentation, (c)Academic Research Writing, (d) Academic English Reading & Discussion, (e) Academic Listening and Speaking, (f) Academic Listening and Presenting, (g) any course at similar level as those shown in (a) to (f).

Safety Training	All students should attend safety training courses in accordance with the requirements set by their registered university and Academia Sinica. Please refer to the safety training regulations. Students who fail to provide safety training proof may be unable to graduate.
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