

## General Requirement for NTU Chemistry-oriented Doctoral Students in Nano Science and Technology Program, TIGP, Academia Sinica

For students enrolled in/after Fall 2019

	<b>PhD Program</b>
<b>Years</b>	3-7 year
<b>Minimum Scores</b>	26 credits (Thesis-Ph.D. not included)
<b>Thesis (Ph.D.)</b>	12 credits
<b>Required Courses</b>	<ol style="list-style-type: none"> <li>1. Seminar I-IV (Ph.D.): 4 semesters (4 credits in total)</li> <li>2. Research Training: 6 Semesters at least (6 credits in total)</li> <li>3. Introduction to Nanotechnology and Advanced Nanotechnology (6 credits in total)</li> <li>4. Two advanced courses(3 credits each), including:               <ol style="list-style-type: none"> <li>(1) Advanced Organic Chemistry I and II</li> <li>(2) Advanced Inorganic Chemistry I or II</li> <li>(3) Advanced Analytical Chemistry I or II</li> <li>(4) Advanced Physical Chemistry I or II</li> </ol> </li> </ol>
<b>Selective Courses</b>	Advanced Chemistry courses offered by the program or NTU-Chemistry to fulfill the minimum scores towards graduation (the Curriculum Number should start with "Chem")
<b>Other Regulation</b>	<ol style="list-style-type: none"> <li>1. Seminar Doctoral students should take the course "Seminar" for 4 semesters and give oral presentation</li> <li>2. Research Training               <ol style="list-style-type: none"> <li>(1) Research Training should be taken every semester before graduation</li> <li>(2) At least four Research Trainings are required under the same directing professor</li> </ol> </li> <li>3. Qualification Exam and Preoral/Oral Exam               <ol style="list-style-type: none"> <li>(1) Doctoral students should pass Qualification Exam before the 5th semester starts.</li> <li>(2) Doctoral students could take the preoral exam at least 6 months after Qualification Exam is passed, and take the oral exam at least 6 months after the preoral exam is passed.</li> </ol> </li> <li>4. Chinese Course A one-year Mandarin course is also required for foreign students</li> </ol>