

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

	<b>Doctor Program</b>
years	3-7 yes
Minimum Scores	26 credits (Thesis-Ph.D. not included)
Thesis (Ph.D.)	12 credits
Required Courses	<ol style="list-style-type: none"> <li>1. "Literature of Chemistry" 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. Nano Science and Technology -- Overview I and II</li> <li>4. Two advanced (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>
Selective Courses	Advanced Chemistry courses offered by NST to fulfill the minimum scores towards Graduation
Other Regulation	<p>* Literature report on Chemistry:</p> <ol style="list-style-type: none"> <li>1. Doctoral students should take the course "Literature of Chemistry" for 4 semesters and give oral presentation.</li> <li>2. Every student should submit 8 written reports on the attended colloquiums or seminars.</li> </ol> <p>* Research Training:</p> <ol style="list-style-type: none"> <li>1. Research training should be taken every semester.</li> <li>2. At least four research trainings are required under the same directing professor.</li> </ol> <p>*Cumulative Exam (CUM) and Preoral/Oral exam:</p> <ol style="list-style-type: none"> <li>1. Doctoral students should pass 2 points in the first year and 7 points in 4 years</li> <li>2. Doctoral students could take the preoral exam at least 6 months after CUM is passed, and take the oral exam at least 6 months after the preoral exam is passed.</li> </ol> <p>* Chinese Course:</p> <ol style="list-style-type: none"> <li>1. A one-year Mandarin course is also required.</li> </ol>