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

PhD Program	
Years	2-7 years
Minimum Credits	22 credits (Thesis-Ph.D. not included)
Thesis (Ph.D.)	12 credits
Required Courses	1. Seminar I-IV (Ph.D.): 4 semesters (4 credits in total) 2. Introduction to Nanotechnology, and Advanced Nanotechnology (6 credits in total) 3. Four courses which course number starts with a letter "D" must be completed (12 credits in total)
Selective Courses	Advanced Physics courses to fulfill the minimum scores towards Graduation
Other Regulation	■ **Qualifying Examination** *Qualify Written Exam (once an year and can only be retaken once) 1. Quantum Mechanics (I) 2. Introduction to Solid State Physics Students must take the Exam in their first year and both must be passed within two years counted from the student's enrollment day. *Qualify Oral Exam: Students should take and pass the Oral Exam within 1.5 years after passing the Written Exam. Read Regulations of Qualify Exam for the Students Enrolled in/after Fall 2012. ■ **Graduation Exam** The degree examination should be held only when the student has published in a SCI-listed journal at least one paper based on that person's doctoral dissertation research. In addition, the total cumulative impact factor from all the published papers in SCI-listed journals should be equal to that of the Physical Review. When publishing a paper based on the student's doctoral dissertation, he/she should list the Department of Physics, NTU as the first affiliated institute. Manuscripts accepted for publication in SCI journals will also satisfy the above-mentioned publication requirement. ■ **Chinese Course:** A one-year Mandarin course is also required for international students.