# General Requirement for NTU Physics-oriented Doctoral Students in Nano Science and Technology Program

**TIGP, Academia Sinica**

**PhD Program**

<table>
<thead>
<tr>
<th>Years</th>
<th>2-7 years</th>
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<tbody>
<tr>
<td>Minimum Scores</td>
<td>22 credits (Thesis-Ph.D. not included)</td>
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<tr>
<td>Thesis (Ph.D.)</td>
<td>12 credits</td>
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| Required Courses | 1. Seminar I-IV (Ph.D.): 4 semesters (4 credits in total)  
2. Nano Science and Technology – Overview I and II  
3. Four courses which course number starts with a letter “D” and are offered by Physics Department must be completed. |
| Selective Courses | Advanced Physics courses offered by NST to fulfill the minimum scores towards Graduation |

*Qualify Written Exam (once an year and can only be retaken once)*

1. Quantum Mechanics (50%) and Classical Electrodynamics or Statistical Mechanics(50%); and  
2. Nano Science and Technology (100%)

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: (applicable for students enrolled in/after 2006)*

Read [Regulations of Qualify Exam for the Students Enrolled in/after Fall 2006](#)

*Graduation Exam*

The exam can only be held after the student has at least one paper based on his/her research being accepted in one of SCI journals.

* Chinese Course:

1. A one-year Mandarin course is also required.