

# Regulations for Doctoral Program Study and Degree Awarding in the Department of Physics, National Taiwan Normal University

Approved on October 30, 1991  
Revised in the second departmental meeting of the 2003 academic year, January 13, 2004  
Revised in the third departmental meeting of the 2004 academic year, March 31, 2005  
Revised in the first departmental meeting of the 2006 academic year, September 29, 2006  
Revised in the first departmental meeting of the 2008 academic year, September 26, 2008  
Revised in the fourth departmental meeting of the 2008 academic year, June 11, 2009  
Revised in the third departmental meeting of the 2009 academic year, March 6, 2009  
Revised in the second departmental meeting of the 2014 academic year, January 6, 2015  
Revised in the first departmental meeting of the 2015 academic year, September 25, 2015  
Revised in the third departmental meeting of the 2015 academic year, March, 9, 2016  
Revised in the fourth departmental meeting of the 2015 academic year, June 8, 2016  
Revised in the first departmental meeting of the 2016 academic year, October 5, 2016  
Revised in the first departmental meeting in the 2017 academic year, September, 27, 2017  
Revised in the fourth departmental meeting of the 2018 academic year, June 11, 2019  
Revised in the first departmental meeting of the 2019 academic year, September 24, 2019  
Revised in the departmental meeting for the second semester of the 2019 academic year (January 8, 2020), faculty course committee meeting for the College of Science for the second semester of the 2019 academic year (March 19, 2020), and the meeting of the Academic Affairs Office for the second semester of the 2019 academic year (April 22, 2020)

1. These regulations are stipulated in accordance with the directions for degree awarding and related examinations.
2. The degree awarded is Doctor of Philosophy, abbreviated as PhD.
3. Doctoral students who comply with the following stipulations may be granted the PhD degree:
  - (1) Satisfying the requirements of required subjects and acquiring required credits within the prescribed period;
  - (2) Passing the examinations for PhD candidate qualification and PhD degree;
  - (3) Having at least one paper related to their doctoral dissertation accepted or published in an SCI, SSCI, EI, TSSCI, or A&HCI journal during the study period;
  - (4) Serving as a teaching assistant for at least one semester before graduation (those who have equivalent teaching experience can apply with the graduate committee for an exemption from serving as a teaching assistant for the Bachelor or Master's program).
4. Doctoral students must acquire at least 18 course credits prior to graduation. These credits must be associated with courses provided to both graduate and doctoral students or solely to doctoral students. Graduate students who enroll directly in the doctoral program must acquire 30 credits (of which at least 18 must be associated with courses provided to both graduate and doctoral students or solely to doctoral students).
5. Stipulations for compulsory and required subjects are as follows:
  - (1) Quantum mechanics (6 credits), classical mechanics (3 credits), classical electrodynamics (6 credits), and statistical mechanics (3 credits) are compulsory subjects.
  - (2) In addition to the compulsory subjects, doctoral students must acquire at least 9 credits from electives that are related to their doctoral dissertation; their electives must be provided by the postgraduate program of the Department of Physics (with the course codes PHC and PHD). Doctoral students must also take at least 6 credits of electives in other fields (including 3 credits from seminar courses). The aforementioned requirements do not include courses provided to both undergraduate and graduate students.
  - (3) Those who have taken the compulsory courses may apply with the Department of Physics for an

exemption from taking the courses again upon the department's approval.

(4) An advisor determines whether an elective is related to a student's doctoral dissertation or other fields.

6. The PhD candidate qualification examination includes a written examination and midterm research assessment; related implementation regulations are separately stipulated.
7. Before taking the PhD degree examination, PhD candidates must comply with Regulations 3, 4, and 5 and submit a graduation qualification review sheet to the graduate committee 1 month before the estimated graduation date for review of their graduation qualifications.
8. A list of examiners for the PhD degree oral examination are recommended in writing by an advisor and determined by the competent authority. If the qualifications of the examiners are in doubt, the list of examiners is reviewed and determined by the graduate committee of the Department of Physics.
9. Doctoral students in the Department of Physics must complete the academic research ethics course and pass the related examination before writing their doctoral dissertation.
10. Regulations that have been approved in a departmental meeting are submitted to a faculty-related meeting and academic affairs meeting. After approval in the faculty-related and academic affairs meetings, the regulations are announced. The same procedures apply to revised regulations.