

**Study Regulations for Master's Students
in the Institute of Materials Science and Engineering
at National Central University**

Approved at the Institute Affairs Meeting on Sep. 20, 2005
Approved at the Academic Affairs Meeting on Dec. 20, 2005
Approved at the Institute Affairs Meeting on Oct. 4, 2006
Approved at the College Affairs Meeting on Jan. 19, 2007
Approved at the Institute Affairs Meeting on Jun. 26, 2007
Approved at the College of Engineering Affairs Meeting on Dec. 12, 2007
Approved at the Academic Affairs Meeting on Mar. 26, 2008
Reviewed at the Academic Affairs Meeting on Jan. 7, 2009
Approved at the Institute Affairs Meeting on Sep. 18, 2009
Reviewed at the Academic Affairs Meeting on Oct. 14, 2009
Approved at the Institute Affairs Meeting on Feb. 25, 2010
Reviewed at the Academic Affairs Meeting on Mar. 24, 2010
Approved at the Institute Affairs Meeting on Apr. 21, 2011
Reviewed at the Academic Affairs Meeting on Jun. 22, 2011
Approved at the Institute Affairs Meeting on Feb. 19, 2013
Reviewed at the Academic Affairs Meeting on Mar. 20, 2013
Approved at the Institute Affairs Meeting on Jul. 16, 2013
Reviewed at the Academic Affairs Meeting on Oct. 16, 2013
Approved at the Institute Affairs Meeting on Sep. 15, 2015
Reviewed at the Academic Affairs Meeting on Oct. 7, 2015
Approved at the Institute Affairs Meeting on Feb. 14, 2017
Reviewed at the Academic Affairs Meeting on Mar. 15, 2017
Approved at the Institute Affairs Meeting on Jul. 12, 2017
Reviewed at the Academic Affairs Meeting on Oct. 11, 2017
Approved at the Institute Affairs Meeting on Mar. 3, 2021
Reviewed at the Academic Affairs Meeting on Mar. 24, 2021
Approved at the Institute Affairs Meeting on Sep. 7, 2021

Article 1

The "Study Regulations for Master's Students in the Institute of Materials Science and Engineering at National Central University" (hereafter referred to as "these Regulations") are established per the "National Central University Study Regulations" and the "National Central University Regulations on Degree Examinations for Postgraduate Students" (hereafter referred to as the "Degree Examination Regulations") to enhance student learning outcomes, foster student-teacher relationships, and inform students of the requirements for coursework and the master's thesis upon admission.

Article 2: Credit Requirements

- 2-1. Students must complete at least 24 course credits (excluding credits of Seminar and Monographic Study courses) from admission to the completion of the master's degree.
- 2-2. Students must pass at least two of the following eight core courses of the Institute of Materials Science and Engineering (hereafter referred to as "the Institute"): (1) Materials Thermodynamics; (2) Kinetic Process of Materials; (3) Advanced

Physical Metallurgy; (4) X-ray Diffraction and Crystal Structure; (5) Materials Physics of Solid; (6) Physical Chemistry of Materials; (7) Electrochemistry of Materials; (8) Mechanical Behavior of Materials.

- 2-3. Students must complete four semesters of Seminar courses before graduation. Local students pursuing a dual degree must enroll in Seminar courses throughout their study period unless otherwise approved by the Institute Affairs Committee. Students with such approval must still meet the minimum course credit requirements for graduation.
- 2-4. Seminar courses can be substituted with English Seminar courses offered by the College of Engineering.
- 2-5. Students must complete four semesters of Monographic Study courses before graduation unless otherwise approved by the Institute Affairs Committee.

Article 3: Thesis Advisor

To select a thesis advisor, students should engage with faculty members upon admission, submit the thesis advisor application form, and obtain approval from the Institute Affairs Committee. The master's thesis will be written under the guidance of the thesis advisor confirmed by the committee.

Article 4: Degree Examination

- 4-1. **Students must meet the English proficiency standards for master's students at the College of Engineering before applying for the degree examination.**
- 4-2. The degree examination application form requires the approval of the thesis advisor, the head of the Institute, and the Office of Academic Affairs before the examination can be conducted.
- 4-3. Students must deliver their master's thesis to the degree examination committee members at least one week before the oral defense.
- 4-4. The oral defense shall be conducted publicly.
- 4-5. The thesis must be written following the "Thesis Format Regulations" of National Central University (hereafter referred to as NCU).
- 4-6. The passing grade for the oral defense is 70, and the highest grade is 100. The evaluation is based on the average of the grades given by the attending members of the degree examination committee. If at least half of the committee members grade the examination as failing, or if plagiarism in a student's master's thesis or any academic misconduct committed by the student is reviewed and confirmed by the committee members, the student will fail the examination.
- 4-7. Students whose degree examination is graded by at least half of the committee members as failing but whose maximum study period has not expired may retake

the examination in the next semester or academic year. Retakes are limited to one attempt; failure in the retake will result in dismissal from NCU.

4-8. The degree examination committee shall consist of three to five members qualified under Article 4 of the "Degree Examination Regulations." Members are recommended by the Institute to the President of NCU for selection and appointment. At least one member shall be external. External members are those who are not NCU's full-time (or project) faculty (including researchers). Committee members must attend the oral defense in person and shall not delegate this responsibility to others. At least three committee members must be present, otherwise, the examination cannot be conducted.

Article 5: Graduation Clearance

In addition to completing NCU's graduation clearance process per NCU's regulations after passing the degree examination, students shall complete the Institute's graduation clearance process by submitting one hard copy of the master's thesis (including an electronic file of the thesis) to the Institute, returning borrowed books and theses, passing the verification of the abstract archiving system of the National Digital Library of Theses and Dissertations in Taiwan, and obtaining the thesis advisor's signature of approval.

Article 6

Matters not covered by these Regulations shall be handled per the relevant regulations of the Ministry of Education and NCU.

Article 7

These Regulations are implemented after being passed at the Institute Affairs Meeting and reviewed by the Academic Affairs Meeting. Any amendments to these Regulations shall follow the same procedure.