

## **Program Requirements for the Master's Degree in the Graduate Institute of Science Education at the National Taiwan Normal University**

Passed at the 2nd Institute Affairs Meeting in the 2nd semester of academic year 2019 on July 13, 2020  
Passed at the Curriculum Committee Meeting of the College of Science for the 1st semester of academic year 2020 on October 8, 2020

### **I. Admissions Process**

The student's admission process should be conducted in accordance with the National Taiwan Normal University (NTNU) academic regulations and requirements.

### **II. Designation of Faculty Advisor**

1. The student should confirm the faculty advisor prior to the end of the first academic year. If the student fails to do so, the Director of the Graduate Institute of Science Education (GISE) will communicate with the faculty in the GISE and assign an academic advisor to the student upon agreement of the faculty member. During the first academic year prior to the confirmation of faculty advisor, the student should be assisted by the Director or the assigned academic advisor with program-related matters, such as course selection.
2. The student should at least have one faculty advisor in the GISE and should turn in the "Thesis Advisor Agreement Form" to the GISE office for future reference.
3. After the confirmation of faculty advisor, if the student wishes to request change of faculty advisor, the student should communicate with the Director and the current faculty advisor and turn in the Agreement Form for Change of Thesis Advisor that includes both the signatures of the previous faculty advisor and the new faculty advisor. After the Agreement Form is processed, the student's change of faculty advisor will be approved.

### **III. Course Registration and Enrollment**

1. The student's registration, course selection, and enrollment should be conducted in accordance with the NTNU academic regulations and requirements.
2. The student should begin thesis writing upon completion of the online academic research ethics education course and passing of the workshop qualifying test.
3. With consideration of the student's college major, the student should follow the course guidelines below to enroll required and selective courses:

Type	College Major	Required Minimum Credit Hours					Minimum Total Credit Hours for Graduation*
		Required		Selective			
		Colloquium	Seminar	Science Education	Science	Research Method	
I	Mathematics, science, or related discipline	4	4	12	9	5	34
II	Science education, mathematics education, or mathematics and science education	4	4	9	12	5	34
III	Other	4	4	12	12	5	37

\*At least a total of 24 credit hours obtained from doctoral, doctoral-master's, and/or master's courses.

#### 4. Presentation of Thesis Proposal:

4.1 The student should inform the GISE office during the semester prior to the semester that the student plans to give the presentation. The student should register at the GISE office and inform the office of their presentation time that will be either at the start or the end of the semester.

4.2 To be scheduled for presentation, the student should submit the application form, the faculty advisor agreement form, and a document that includes the abstract and the first three chapters of the student's thesis prior to the start date of midterm examination based on the semester's academic calendar.

4.3 The presentation of thesis proposal should be conducted at least three months prior to the graduate degree exam.

5. Graduate degree exam : The student should follow the university's "Degree Conferral and Graduate Degree Exam Regulations" for the application to graduate degree exam.

6. Upon completion of the following requirements, the student will be conferred a degree of Master of science:

6.1 The student has enrolled in the program for one year or more.

6.2 The student has completed a total of 34 or 37 credit hours based on the GISE's course guidelines.

6.3 The student has taken the academic ethics course, passed the test, and obtained the certificate.

6.4 The average grade for all the courses that the student has taken has passed.

6.5 The student has completed the presentation of thesis proposal.

6.6 The student has completed the graduate degree exam.

7. The student should refer to and follow the institute's "Program Requirements for the Master's Degree" based on the institute's "Graduate Student Handbook" released in the academic year when the student enrolls in the program.

8. Degree Conferral: After fulfilling the program requirements, the student graduates and receives a degree of Master of Science, M.S.

**IV.** The Program Requirements for the Master's Degree was announced and began to be implemented upon the approval by the Academic Affair Committee after passed at the Institute Affairs Meeting and the Curriculum Committee Meeting of the College of Science. The approval procedure should be required if any amendments are made in the future.