

**Form 23**

Graduate Institute of Science Education  
National Taiwan Normal University  
Required Courses and Credit Hours for Master's Students

Student Name : \_\_\_\_\_

Type (Please check off) :

- Type I Undergraduate major in mathematics, science, or other related fields
- Type II Undergraduate major in science education
- Type III Undergraduate major in another field that is neither science education nor science

Apply for Waiver:

(1) Undergraduate level science courses can be taken. However, no more than two thirds of science course credit hours can be waived.

Yes. If yes, please attach the application form for waiver of course credit hours and explain in the column of total credit hours.  No.

(2) Thesis advisor's approval is required. No more than one quarter of the course credit hours can be waived.

Yes. If yes, please attach the application form for waiver of course credit hours and explain in the column of total credit hours.  No.

Total credit hours required to graduate:

Area	Required Credit Hours	Completed Courses and Credit Hours	Total Credit Hours
Seminar	Type I 2 credit hours Type II 2 credit hours Type III 2 credit hours	1. _____ credit hours 2. _____ credit hours	
Colloquium	Type I 2 credit hours Type II 2 credit hours Type III 2 credit hours	1. _____ credit hours 2. _____ credit hours	
		1. _____ credit hours	

Science Education Courses	Type I 12 credit hours	2. _____ credit hours	
		3. _____ credit hours	
		4. _____ credit hours	
	Type II 9 credit hours	5. _____ credit hours	
		6. _____ credit hours	
		7. _____ credit hours	
	Type III 12 credit hours	8. _____ credit hours	
		9. _____ credit hours	
		10. _____ credit hours	
	Science Courses	Type I 9 credit hours	
		2. _____ credit hours	
		3. _____ credit hours	
Type II 12 credit hours		4. _____ credit hours	
		5. _____ credit hours	
Type III 12 credit hours		6. _____ credit hours	

Area	Required Credit Hours	Completed Courses and Credit Hours	Total Credit Hours
Research Methodology Courses	Type I 5 credit hours	1. _____ credit hours	
		2. _____ credit hours	
		3. _____ credit hours	
	Type II 5 credit hours	4. _____ credit hours	
	Type III 5 credit hours		
Cumulative Credit Hours			

Area	Required Credit Hours	Completed Courses and Credit Hours	Total Credit Hours
Individual Studies or Guided Studies (This section is only for those who have taken the courses in this area to fill out.)	Type I 2 credit hours	1. _____ credit hours	
	Type II 2 credit hours		
	Type III 2 credit hours		