

**Form 9**

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

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

Type (Please check off) :

Type I Master's program's area of study in mathematics, science, or other related fields

Minimum credit hours required to graduate: 43

Type II Master's program's area of study in science education Minimum credit hours required to graduate: 43

Type III Master's program's area of study in other fields Minimum credit hours required to graduate: 49

Apply for Waiver: Description: Academic advisory committee'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.

Minimum required credit hours and course for each area

Area	Required Credit Hours	Completed Courses and Credit Hours	Total Credit Hours
Seminar	8 credit hours	1. _____ credit hours 2. _____ credit hours 3. _____ credit hours 4. _____ credit hours	
Colloquium (1)(2)	8 credit hours	1. _____ credit hours 2. _____ credit hours 3. _____ credit hours 4. _____ credit hours	
Science Education Courses	Type I 15 credit hours Type II 12 credit hours Type III 15 credit hours	1. _____ credit hours 2. _____ credit hours 3. _____ credit hours 4. _____ credit hours 5. _____ credit hours 6. _____ credit hours 7. _____ credit hours 8. _____ credit hours	

Area	Required Credit Hours	Completed Courses and Credit Hours	Total Credit Hours
Science Courses	Type I 6 credit hours	1. _____ credit hours	
		2. _____ credit hours	
		3. _____ credit hours	
	Type II 12 credit hours	4. _____ credit hours	
		5. _____ credit hours	
	Type III 12 credit hours		
Research Methodology Courses	Types I 6 credit hours	1. _____ credit hours	
		2. _____ credit hours	
		3. _____ credit hours	
	Type II 3 credit hours	4. _____ credit hours	
		5. _____ credit hours	
	Type III 12 credit hours	6. _____ credit hours	
Cumulative Credit Hours			