

## Ph.D. Program Curriculum Framework

Graduate Institute of Science Education(GISE), National Taiwan Normal University

With consideration of the area of study of the student's master's program, the student should follow the course guidelines below to enroll required and selective courses:

Type	Area of Study of Master's Program	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	8	8	15	6	6	43
II	Science education	8	8	12	12	3	43
III	Other	8	8	15	12	6	49

\* At least a total of 18 credit hours obtained from doctoral and/or doctoral-master's courses.