Curriculum and Instruction: Doctor's Program(040102)

（学术型博士，4 年制）

1. Training method

After the postgraduate enrollment, the tutor selects two assistant tutors who can play an academic support role according to the academic interest and willingness of the postgraduate. The tutor bears the main responsibility. In addition to the academic support of the deputy supervisor, the deputy supervisor has the independent voting right when major questions such as whether the graduate student has entered the doctoral dissertation stage or whether the dissertation can be answered.

Actively promote the joint training of graduate students with internationally renowned scholars or academic units.

2.Length

The general length of this program is 4 years (6 years maximum).

3. Foci of research

1. Chinese course and teaching
2. Mathematics Curriculum and Teaching
3. Curriculum and Teaching
4. History of Mathematics and Mathematics Education
5. Learning scientific research
6. Science education
7. Professional Development of Science Teachers
8. Development and Evaluation of Chemistry Courses
9. Scientific Capability Development and Evaluation
10. Physics Curriculum and Teaching
11. Biology course and teaching

4. Credit requirements and curriculum

(1) Credit requirements

Doctoral courses include common courses, Elementary courses, Specialized Courses, interdisciplinary elective courses. Doctoral students need to complete at least 15 credits. Public elective courses are not subject to study requirements (credits are not included in the 15 credits).

(2) curriculum

Curriculum category	Foci of research	Name	Credit	Semester
Common Courses	all	Chinese Marxism and Contemporary	2	1st

(compulsory)		World		
		Foreign Language	4	1st&2nd
Elementary courses (compulsory)	all	Design of Research in Education	3	1st
Specialized Courses (compulsory)	all	The theory of the Curriculum & Instruction	3	1st
	all	Thesis Writing	1	2nd
Specialized Courses (optional)	Chinese	Cultural Studies on Chinese Language Curriculum	2	1st
		History and Pedagogy of Chinese	2	2nd
	Maths	Research Methods in Mathematics Education	2	2nd
		Special Topics in Mathematics Education	2	2nd
		History & Pedagogy of Mathematics	2	1st
		Research on Mathematics Curriculum and Instruction	2	3rd
	Physics	Monographic Study on Theory of Physics Curriculum	3	1st
		Monographic Study on Physics Experiment Instruction	3	2nd
		Monographic Study on Physics Instructional Theory	3	3rd
	Chemistry	Introduction to Research in Science Education	3	1st
		Practice Research in Excellent Chemistry Teaching	2	1st
		Chemistry Educational Psychology	3	2nd
	Biology	Biology Curriculum and Teaching Practice Research	2	1st
		Frontiers in Life Science and Biology Education	2	2nd
	Learning scientific	Frontier Research on the Learning Sciences	3	2nd

		Research & Development of Instructional Design	2	3rd
	Science education	Evolution of Epistemology and Reform of Science Education	2	2nd
		Research on Science Education	2	3rd
interdisciplinary elective courses	all	Educational psychology	2	2nd