

Curriculum and Instruction: Master's Program(040102)

(学术型硕士, 3 年制)

This program combines individual mentorship (by advisors) and collaborative learning. Major types of learning include course-taking, self-regulated learning, small-group discussion, issues-based research, and thesis writing.

1.Length

The general length of this program is 3 years (5 years maximum). Upon completing program requirements, students who excelled academically can apply for speed-up graduation.

2. Foci of research

Chinese teaching

Mathematics teaching

English teaching

Physics teaching

Chemistry teaching

Biology teaching

Social (including moral and rule of law) education

History teaching

Geography teaching

Ideological and Political teaching

Science education

3. Types of Courses

Courses include general courses, specific courses and professional courses. General courses include general courses required by the University, such as political theory and foreign languages, and elective courses such as research methods. Specific courses focus on fields of curriculum and instruction. Professional courses further

focus on particular research directions in the field.

4. Credit Requirements

(1) Course and Credit

Prior to the procedure of thesis defense, students should obtain credits of at least 30 points. In addition, the following specific requirements should be met.

The political theory courses in general courses include *Study of Socialism with Chinese Characteristics Theory and Practice* (2 credits) and *Marxism and Social Science Methodology* (the designated elective courses for postgraduate students of the humanities and social sciences, 1 credit). Foreign language is 4 credits. *Research ethics and academic norms* is a non-credit course (self-regulated learning and online assessment).

General courses include *second foreign language, computer application, literature retrieval technology and research methods* (2 credits each). Students can choose one of them.

Students should take at least 3 general courses (at least 8 credits), at least 3 required professional courses (at least 5 credits), and several elective professional courses (at least 6 credits).

Students should have interdisciplinary courses (elective) and obtain at least 2 credits. If a student does not take any elective courses, he or she should take other professional courses (of the same credits).

(2) Curriculum

Curriculum category	Name	Credit	Semester
Common Courses (compulsory)	Theory and Practice of Socialism With Chinese Characteristics	2	1 st
	Marxism and Methodology of Social Science	1	1 st
	Foreign Language	4	1 st &2 nd
	Discipline and Ethics in Academic Research	/	/
	Optional Course I	2	1 st
Elementary courses (compulsory)	Western Philosophy and Its Connection with Education	2	2 nd
	Qualitative Research in Education	1	1 st
	Quantitative Research in Education	3	1 st
	Studies on Chinese Curriculum & Textbooks	2	1 st
	Studies on Mathematics Curriculum & Textbooks	2	1 st
	Studies on Foreign Language Curriculum & Textbooks	2	1 st
	Advanced Quantum Mechanics	3	1 st

	Advanced Inorganic Chemistry	3	1 st
	Life Science Frontier and Biology Teaching	2	1 st
	Frontiers of Moral-political Education	2	2 nd
	History Curriculum and Teaching Methodology	2	1 st
	Studies on Geography Curriculum & Textbooks	2	1 st
	Studies on Science Curriculum & Textbook	2	1 st
Specialized Courses (compulsory)	English for education	1	1 st
	Instructional Design and Practice of Chinese	2	2 nd
	Theory and Practice of Chinese Learning	2	1 st
	Assessment in Chinese Education	2	1 st
	Case Study on Mathematics Teaching	2	1 st
	Measurements and Assessments in Mathematics education	2	2 nd
	History & Pedagogy of Mathematics	2	1 st
	Instructional Design and implementation for Foreign Language Teaching	2	1 st
	Foreign Language Teacher Professional Development	2	2 nd
	Foreign Language Assessment — theory and practice	2	3 rd
	Research of physics curriculum and textbook	2	1 st
	Design and Practice of Physics Teaching	2	1 st
	Chemical Experiment Design and Research	3	1 st
	Chemistry Research Methods in Education	3	1 st
	Chemistry Curriculum Theory	3	2 nd
	Biology Curriculum and Teaching Practice Research	2	1 st
	Design and Teaching Research of Biology Experiment	2	2 nd
	Measurement and Evaluation of Biological Education	2	2 nd
	Theories and Methods of Study on History	2	2 nd
	The General Reviews on History of China	2	1 st
	Assessment in History Education	2	2 nd
	Frontiers of Geography Science and Geography Education in Middle Schools	2	1 st
	ICT in Geography Education	2	1 st
	Instructional Design and Implementation for Geography Teaching	2	2 nd
	Moral-political Education Curriculum and Textbook Studies	2	1 st
	Moral-political Education Teaching Design and Implementation	2	1 st
	Moral-political Education Teaching Professional Skills	2	1 st
	Design and Implementation for Teaching Science	2	2 nd

	History and Philosophy of Science	2	2 nd
	Introduction of Science and Technology Communication	2	2 nd
Specialized Courses (optional)	History and Pedagogy of Chinese	2	2 nd
	Research on Mother Tongue Education in Foreign Countries	2	2 nd
	History of Chinese Traditional Ideas	2	1 st
	Chinese Education under the Perspective of Chinese Language and Literature	2	3 rd
	Theory and Method of Mathematics Learning	2	2 nd
	Special Topics in Mathematics Education	2	2 nd
	Comparative Studies on Mathematics Education	2	3 rd
	Modern Mathematics & High School Mathematics	2	3 rd
	Special Topics on Foreign Language Instruction	2	2 nd
	School-based curriculum development in foreign language education	2	2 nd
	History of English Teaching	2	1 st
	Applied linguistics	2	2 nd
	Analysis of Physics Experimentation	2	2 nd
	Measurement and Assessment in Physics Education	2	2 nd
	High School Physics Olympiad	2	2 nd
	History of Science and Philosophy of Science	2	2 nd
	The History and Methods of Chemistry	2	2 nd
	Modern Chemistry and Middle School Chemistry	2	2 nd
	Measure and Assessment in Chemistry Education	2	1 st
	The Theory and Practice of Chemistry Learning	2	2 nd
	Special Topics in Biology Education and Thesis Writing	2	2 nd
	Empirical Research of Biological Education	2	1 st
	Professional Development Based on Brain Research	2	1 st
	Information Technology and Science Education	2	1 st
	High School History Pedagogy and Case Studies	2	2 nd
	Selected Topics on World History Research	2	2 nd
	Foreign Researches in History Education	2	2 nd
	Problem-Based Learning in Geography Curriculum	2	1 st
	Topical Studies in Geography Education and Paper Writing	2	1 st
	Experimental Design and Development in Geography Education	2	2 nd
Assessment of Geography Teaching	2	2 nd	
A compare of citizenship education in the world	2	2 nd	
Moral-political Education Studies and Writing	2	2 nd	
The Research of Social Studies in the world	2	2 nd	

	Moral-political Education Teaching Model and Innovation	2	1 st
	Frontier of Science Education and Communication	2	1 st
	STEM Education Theories and Practice	2	2 nd
	Information Technology and Science Education	2	1 st

Note*: Optional Course I are Second foreign language course, Computer application course, Technology course of literature retrieval, The research methods' courses and etc.. (2 credits)