

Master of Education Program (Mathematics Education)

Introduction

Mathematics Education in Mathematics and Science College, Shanghai Normal University, is a key discipline in Shanghai, China. The Master of Education program (Mathematics Education) is a professional degree for individuals who are looking for opportunities to extend their professional knowledge and skills in mathematics education. This program aims to cultivate secondary maths teachers or educational researchers with solid professional knowledge, flexible teaching skills, and global horizons. Our graduates are mainly involved in mathematics teaching, school administration, and mathematics education research in Shanghai.

Aims

The program aims to enable students to:

- ✧ Demonstrate professional knowledge and skills in mathematics education.
- ✧ Apply knowledge and skills to understand and conduct mathematics teaching and educational research.
- ✧ Develop cross-cultural communication skills, critical thinking, and creativity.
- ✧ Reflect on important educational beliefs and values in their own cultural and educational contexts.

Program Features

- ✧ **A dual tutorial system:** The program adopts a dual tutorial system. A student is supervised by a mathematics educator from SHNU and an experienced mathematics teacher from an international middle school.
- ✧ **Internship:** This program offers an exciting opportunity for an internship in local or international middle schools for around four months. Hence, students could acquire an in-depth understanding of Shanghai mathematics education and experience different mathematics educational activities, such as observing and implementing mathematics teaching and attending teaching research seminars.

- ✧ **Scholarships:** Various scholarships are available for excellent and diligent students.

Duration

Our full-time program is designed to be completed over four semesters (2 academic years).

Graduation Requirements

- ✧ Students are required to complete 38 minimum credits, including two public courses (4 credits), five fundamental degree courses (10 credits), five professional degree courses (10 credits), three elective courses (6 credits), and professional practices (e.g., an internship) (8 credits).
- ✧ Students are required to complete their thesis and pass the oral defense successfully.

Curriculum

Professional degree courses

- ✧ The study of elementary mathematics
- ✧ Mathematics teaching design and implementation
- ✧ Measurement and assessment in mathematics education
- ✧ Mathematics curriculum and textbook research
- ✧ Modern mathematics and middle school mathematics

Elective courses

- ✧ Research methods in mathematics education
- ✧ Psychology of mathematics education
- ✧ Geometry
- ✧ Mathematical culture and history
- ✧ Ambitious mathematics teaching design