

# Master of Applied Chemistry

## Introduction

This online program offers five specified 3-credit courses including materials chemistry, general chemistry, organic chemistry, polymer chemistry, and analytic chemistry. The program can be completed in as little as one semester, and is established for individuals who are looking for opportunities to extend their professional knowledge and skills in chemistry

The Chemistry and Materials Science disciplines in Shanghai Normal University are ranked among ESI top 1% worldwide. Currently, we have over 70 faculty members with significant research accomplishments such as over 500 SCI publications including *Science*, *Nature*, *Nat. Catal.*, *Nat. Commun.*, et. al.

Shanghai Normal University (SHNU) is a university with interdisciplinary development objectives in the field of Arts, Science and Engineering with over 2,980 full-time employees and more than 600 part-time professors.

## Aims

This online exchange program of Applied Chemistry aims to cultivate students with solid basic knowledge of chemistry and materials, basic theory, experimental skills, related engineering and technical knowledge. It will provide students with an international vision and offer the same innovative curriculums and high-quality teaching as other on-campus programs. It will also motivate students to build a strong foundation in chemistry and enhance their real-world skills in the fields of chemistry, chemical engineering, and materials science for careers in government, industrial, and academic research.

Specifically, the objectives will be:

- ❖ Master the foundational knowledge and experimental skills of applied chemistry
- ❖ Combine chemistry foundations and engineering principles to analyze and solve practical problems in both academia or industrial tech companies
- ❖ Assess the appropriate use of modern techniques, skills, and tools in creating a technology solution
- ❖ Develop academic vision and innovation skills in chemistry

## Program Features:

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

## Duration

Our full-time program is designed to be completed in a minimum of one academic year and a maximum of two academic years for full-time study

## Graduation Requirements

❖ Students are required to complete five 3-credit courses

✧ Students are required to complete their thesis and pass the oral defense successfully.

### **Curriculum**

- ✧ Materials Chemistry
- ✧ General Chemistry
- ✧ Organic Chemistry
- ✧ Polymer Chemistry
- ✧ Analytical Chemistry