

Master of Science in Chemistry Education

Students who opt for the Thesis may concentrate on research in basic or applied Chemistry or scholarly work in the area of Chemistry Education. On the other hand, students who choose the Project Track can do two (2) Term papers (related or different) on innovations in the teaching of Chemistry, studies on chemical instrumentation and applications, and related areas. The Project Track is especially suitable for practicing teachers.

The undergraduate prerequisite for the program is a B.S. in any natural or physical science. Education graduates with strong specialization in the sciences, especially in Chemistry, may also be considered for admission.

I. REQUIRED SUBJECTS

		Units
CH ED 201.1	Foundations of Chemistry Curriculum I: General, Inorganic, and Physical Chemistry	3
CH ED 201.2	Foundations of Chemistry Curriculum II: Organic Chemistry	3
CH ED 201.3	Foundations of Chemistry Curriculum III: Analytical and Environmental Chemistry	3
CH ED 202.1	Design of Chemistry Experiments Curriculum Laboratory I: General, Inorganic, and Physical Chemistry	2
CH ED 202.2	Design of Chemistry Experiments Curriculum Laboratory II: Organic Chemistry	2
CH ED 202.3	Design of Chemistry Experiments Curriculum Laboratory III: Analytical and Environmental Chemistry	2
Seminar Subjects		
CH 285.1	Graduate Seminar I	1
CH 285.2	Graduate Seminar II	1
		TOTAL: 17

II. ELECTIVES

At least 9 units of graduate subjects available at the Department of Chemistry or other Science and Engineering Departments, or from Education, Psychology, and related fields with the approval of the Academic Adviser.

III. COMPREHENSIVE EXAM

		Units
CH COMPRE 200	Comprehensive Examinations	0
		TOTAL: 0

IV. THESIS WRITING AND ORAL DEFENSE OR MASTER'S PROJECT

		Units
CH 298	Thesis Direction	0
CH 299	Thesis Writing	0
OR		
CH 291.1	Master's Project I	3
CH 291.2	Master's Project II	3
		TOTAL: 6

*The units for the thesis are credited after the student passes the oral defense and submits the final revised copy of the thesis.

SUMMARY

Required Subjects	17 units
Electives	9 units
Comprehensive Exam	0 units
Thesis Writing and Oral Defense or Master's Project	6 units

Total 32 units