



**Ateneo de Zamboanga University**  
COLLEGE OF SCIENCE & INFORMATION TECHNOLOGY  
GRADUATE PROGRAM

**MASTER IN SCIENCE EDUCATION major in CHEMISTRY  
(Professional Track)**

The Master in Science Education major in Chemistry integrates content of science with pedagogy. It intends not only to enhance the student's foundations in the science of Chemistry and the skills to impart basic scientific concepts, interesting and relevant science and scientific skills, but also to develop among their learners insights into the practice of science. The program is designed for Senior High School or college teachers whose specialization is Chemistry.

(Admission Requirement: Applicant must be a graduate of BSED with major in Science or Physical Science or any bachelor's degree with at least 15 units in Chemistry subjects; Passing score in the Graduate Entrance Test; Successful interview with the department chair.)

<b>CORE COURSES (9 UNITS)</b>		<b>UNITS</b>
CORE 500	Research Methods	3
COR 501	Statistics	3
COR 504	History and Philosophy of Science	3

<b>MAJOR COURSES (15 UNITS)</b>		
CHEM 511	Trends in Teaching Chemistry	3
CHEM 525	Advanced Organic Chemistry	3
CHEM 528	Biochemistry	3
CHEM 530Lec	Advanced Inorganic Chemistry	2
CHEM 530Lab	Advanced Inorganic Chemistry Laboratory	1
SCIED 515	Curriculum Design	3

<b>ELECTIVES (any two courses - 6 units)</b>		
CHEM 531	Environmental Chemistry	3
CHEM 532	Food Analysis	3
CHEM 533	Applied Chemistry	3

Comprehensive Examinations

CHEM 595	Capstone	3
	<i>(Design of three laboratory experiments using readily available materials)</i>	

**SUMMARY:**

Core	9 units
Major Courses	15 units
Electives	6 units
Capstone	3 units
<b>Total</b>	<b>33 Units</b>

**Effective SY 2021-2022**