



Republic of the Philippines
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
 Lapasan, Cagayan de Oro City

COLLEGE OF SCIENCE ANG TECHNOLOGY EDUCATION

Masters/Doctors of Philosophy in Science Education -Chemistry Straight Program

SUBJECT CODE	DESCRIPTIVE TITLE	HOUR		UNIT			PREREQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC	CREDIT		
<u>1ST YEAR – 1ST SEMESTER</u>								
SCIED500	Math for Science Teachers 1	0.0	3.0	0.0	3.0	3.0		
CHEM500	Basic Concepts in Chemistry for Teachers	0.0	3.0	0.0	3.0	3.0		
ENVI500	Selected Topics in Environmental Science	0.0	3.0	0.0	3.0	3.0		
BIO500	Basic Concepts in Biology for Teachers (Elec)	<u>0.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>	<u>3.0</u>		
		0.0	12.0	0.0	12.0	12.0		
<u>1ST YEAR – 2ND SEMESTER</u>								
SCIED501	Math for Science Teachers 2	0.0	3.0	0.0	3.0	3.0		
SCIED505	History & Philosophy of Science and Math	<u>0.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>	<u>3.0</u>		
		0.0	6.0	0.0	6.0	6.0		
<u>1ST YEAR – SUMMER</u>								
CHEM501	Advanced Concepts in Chemistry for Teachers	0.0	3.0	0.0	3.0	3.0		
RES500	Research Statistics	0.0	3.0	0.0	3.0	3.0		
BIO510	Basic Concepts in Genetics, Evolution and Biodiversity (Elec)	<u>0.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>	<u>3.0</u>		
		0.0	9.0	0.0	9.0	9.0		
<u>2ND YEAR – 1ST SEMESTER</u>								
CHEM520	Inorganic Chemistry	0.0	3.0	0.0	3.0	3.0		
CHEM530	Organic Chemistry	0.0	3.0	0.0	3.0	3.0		
SCIED510	Methods of Teaching Sciences	<u>0.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>	<u>3.0</u>		
		0.0	9.0	0.0	9.0	9.0		
<u>2ND YEAR – 2ND SEMESTER</u>								
RES501	Methods of Research & Thesis Writing	0.0	3.0	0.0	3.0	3.0		
CHEM540	Biochemistry	0.0	3.0	0.0	3.0	3.0		
BTECH520	Issues and Trends in Biotechnology (Elec)	<u>0.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>	<u>3.0</u>		
		0.0	9.0	0.0	9.0	9.0		
<u>2ND YEAR – SUMMER</u>								
CHEM510	Environmental Chemistry	0.0	3.0	0.0	3.0	3.0		
CHEM550	Analytical Chemistry	0.0	3.0	0.0	3.0	3.0		
CHEM560	Physical Chemistry	<u>0.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>	<u>3.0</u>		
		0.0	9.0	0.0	9.0	9.0		

3RD Year First Semester

SUBJECT CODE	DESCRIPTIVE TITLE	HOUR		UNIT		
		Lab	Lec	Lab	Lec	Credit
CHEM610	Natural Products Chemistry	0.0	3.0	0.0	3.0	3.0
CHEM620	Selected Topics in Applied Inorganic Chemistry	0.0	3.0	0.0	3.0	3.0
RES601	Advanced Methods of Research and Dissertation Writing	0.0	3.0	0.0	3.0	3.0
		0.0	9.0	0.0	9.0	9.0
<u>3RD YEAR - 2ND SEMESTER</u>						
CHEM630	Survey of Instrumental Methods of Analysis	0.0	3.0	0.0	3.0	3.0
CHEM600	Chemistry Education Workshop	0.0	3.0	0.0	3.0	3.0
		0.0	6.0	0.0	6.0	6.0
<u>3RD YEAR - SUMMER</u>						
CHEM640	Selected Topics in Applied Biochemistry	0.0	3.0	0.0	3.0	3.0
RES600	Advanced Research Statistics	0.0	3.0	0.0	3.0	3.0
BIO610	Selected Topics in Applied Biology(Elec)	0.0	3.0	0.0	3.0	3.0
		0.0	9.0	0.0	9.0	9.0
<u>4TH YEAR - 1ST SEMESTER</u>						
CHEM650	Chemistry/Chemistry Education Seminar 1	0.0	2.0	0.0	2.0	2.0
CHEM660	Special Problems in Chemistry/Chemistry Education 1	0.0	6.0	0.0	6.0	6.0
		0.0	8.0	0.0	8.0	8.0
<u>4TH YEAR - 2ND SEMESTER</u>						
CHEM651	Chemistry/Chemistry Education Seminar 2	0.0	2.0	0.0	2.0	2.0
CHEM661	Special Problems in Chemistry/Chemistry Education II	0.0	6.0	0.0	6.0	6.0
BIO600	Plant Growth and Development(Elec)	0.0	3.0	0.0	3.0	3.0
CHEM695	Dissertation Writing	0.0	0.0	0.0	15.0	15.0
		0.0	11.0	0.0	26.0	26.0