



Republic of the Philippines  
**MINDANAO UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
 Lapanan, Cagayan De Oro City

**COLLEGE OF SCIENCE AND MATHEMATICS**

**B.S. in Applied Physical Sciences**  
**REVISED 2009**

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T		PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC		
<b>1ST YEAR - 1ST SEMESTER</b>							
CHEM10a	General Chemistry 1	3.0	3.0	1.0	3.0	4.0	MATH13a
MATH13a	College Algebra	0.0	5.0	0.0	5.0	5.0	
HUM11b	Logic & Ethics	0.0	3.0	0.0	3.0	3.0	
ENGL11	Study and Thinking Skills	0.0	3.0	0.0	3.0	3.0	
SS10a	New Constitution	0.0	3.0	0.0	3.0	3.0	
SS20a	Rizal's Life, Works & Writings	0.0	3.0	0.0	3.0	3.0	
PD10	Essence of Personality	0.0	1.0	0.0	1.0	1.0	
NSTP10	ROTC/CWTS/LTS 1	0.0	3.0	0.0	3.0	3.0	
NSTP10a	ROTC1	0.0	0.0	0.0	3.0	3.0	
NSTP10b	CWTS 1	0.0	0.0	0.0	3.0	3.0	
		<b>3.0</b>	<b>24.0</b>	<b>1.0</b>	<b>30.0</b>	<b>31.0</b>	
<b>1ST YEAR - 2ND SEMESTER</b>							
CHEM11a	General Chemistry 2	3.0	3.0	1.0	3.0	4.0	CHEM10a
MATH20	Elementary Statistics	0.0	3.0	0.0	3.0	3.0	
MATH17	Plane Trigonometry	0.0	3.0	0.0	3.0	3.0	MATH13a
BIO10	Fundamentals of Biological Sciences	0.0	3.0	0.0	3.0	3.0	
COMP21	Computer Programming 1	3.0	3.0	1.0	3.0	4.0	
ENGL20	Writing Across Disciplines	0.0	3.0	0.0	3.0	3.0	ENGL11
PD20	Social Graces & Social Relations	0.0	1.0	0.0	1.0	1.0	PD10
NSTP20	ROTC/CWTS/LTS 2	0.0	3.0	0.0	3.0	3.0	NSTP10
ENV110	Environmental Science	0.0	3.0	0.0	3.0	3.0	
		<b>6.0</b>	<b>25.0</b>	<b>2.0</b>	<b>25.0</b>	<b>27.0</b>	
<b>2ND YEAR - 1ST SEMESTER</b>							
CHEM22	Organic Chemistry 1	3.0	3.0	1.0	3.0	4.0	CHEM11a
MATH32b	Differential Calculus w/ Analytic Geometry	0.0	5.0	0.0	5.0	5.0	MATH13a, MATH17
COMP22	Computer Programming 2	3.0	3.0	1.0	3.0	4.0	COMP21
ENGL30	Speech & Oral Communication	0.0	3.0	0.0	3.0	3.0	
SS30	General Economics, Taxation & Agrarian Reform	0.0	3.0	0.0	3.0	3.0	
CHEM30	Inorganic Chemistry	3.0	3.0	1.0	3.0	4.0	CHEM11a
		<b>9.0</b>	<b>20.0</b>	<b>3.0</b>	<b>20.0</b>	<b>23.0</b>	
<b>2ND YEAR - 2ND SEMESTER</b>							
CHEM23	Organic Chemistry 2	3.0	3.0	1.0	3.0	4.0	CHEM22
PHYS10a	General Physics 1 - Mechanics and Heat	3.0	3.0	1.0	3.0	4.0	MATH13a, MATH17
MATH43	Linear Algebra	0.0	3.0	0.0	3.0	3.0	MATH13a
ENGL40	Technical Writing & Reporting	0.0	3.0	0.0	3.0	3.0	ENGL20
MATH34a	Integral Calculus	0.0	5.0	0.0	5.0	5.0	MATH32b
COMP23	Computer programming 3	3.0	3.0	1.0	3.0	4.0	COMP22
ENGL54	Culture, Arts & Literature	0.0	3.0	0.0	3.0	3.0	
		<b>9.0</b>	<b>23.0</b>	<b>3.0</b>	<b>23.0</b>	<b>26.0</b>	
<b>3RD YEAR - 1ST SEMESTER</b>							
CHEM41	Analytical Chemistry 1	6.0	3.0	2.0	3.0	5.0	MATH13a, CHEM11a
CHEM70	Chemical Process Industries	3.0	3.0	1.0	3.0	4.0	CHEM30, CHEM23
PHYS20	Thermodynamics	3.0	3.0	1.0	3.0	4.0	PHYS10a
APPS40	Techniques for Industrial Experimentation	3.0	2.0	1.0	2.0	3.0	MATH20
MATH38	Differential Equations	0.0	3.0	0.0	3.0	3.0	MATH34a
PHYS11a	General Physics 2 - Electricity and Magnetism	3.0	3.0	1.0	3.0	4.0	PHYS10a
		<b>18.0</b>	<b>17.0</b>	<b>6.0</b>	<b>17.0</b>	<b>23.0</b>	

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T		PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC		
<b>3RD YEAR - 2ND SEMESTER</b>							
CHEM46	Physico-Chemical Test Methods	6.0	2.0	2.0	2.0	4.0	CHEM41
PHYS30	Acoustics & Optics	3.0	3.0	1.0	3.0	4.0	PHYS11a
PHYS40	Basic Electronics	3.0	3.0	1.0	3.0	4.0	PHYS11a
APPS10	Industrial Materials & Processes	0.0	3.0	0.0	3.0	3.0	CHEM30, CHEM23
APPS60	Methods of Research in the Sciences	0.0	3.0	0.0	3.0	3.0	
CHEM50a	Biochemistry	3.0	3.0	1.0	3.0	4.0	CHEM23
		<u>15.0</u>	<u>17.0</u>	<u>5.0</u>	<u>17.0</u>	<u>22.0</u>	
<b>3RD YEAR - SUMMER</b>							
APPS80	On the Job Training	240.	0.0	0.0	4.0	4.0	
		<u>240.</u>	<u>0.0</u>	<u>0.0</u>	<u>4.0</u>	<u>4.0</u>	
<b>4TH YEAR - 1ST SEMESTER</b>							
CHEM60	Introduction to Physical Chemistry	0.0	3.0	0.0	3.0	3.0	MATH32b, CHEM41, PHYS11a
PHYS41	Electronic Devices & Circuits	3.0	3.0	1.0	3.0	4.0	PHYS40
PHYS60	Modern Physics	0.0	3.0	0.0	3.0	3.0	PHYS30
APPS30	Industrial Quality Management	0.0	3.0	0.0	3.0	3.0	APPS40, CHEM46
APPS90	Undergraduate Thesis 1	0.0	3.0	0.0	3.0	3.0	APPS60
ENVI21	Industrial Environmental Technology & Management	3.0	3.0	1.0	3.0	4.0	ENVI10, CHEM46
PSYC20	Applied Psychology	0.0	3.0	0.0	3.0	3.0	
		<u>6.0</u>	<u>21.0</u>	<u>2.0</u>	<u>21.0</u>	<u>23.0</u>	
<b>4TH YEAR - 2ND SEMESTER</b>							
PHYS50	Applied Physics: Power Generation	0.0	3.0	0.0	3.0	3.0	PHYS20
APPS91	Undergraduate Thesis 2	0.0	240.	0.0	3.0	3.0	APPS90
		<u>0.0</u>	<u>243.</u>	<u>0.0</u>	<u>6.0</u>	<u>6.0</u>	