



Adventist University of the Philippines

BACHELOR OF SCIENCE IN CHEMISTRY

(Enhanced Curriculum 2014)

FIRST YEAR

<u>First Semester</u>			Units
CHEM	111	General Chemistry I Lect.	3
CHEM	111L	General Chemistry I Lab.	2
MATH	111	College Algebra	3
FILI	111	Kom. sa Akademikong Filipino	3
ENCA	111	Communication Arts I	3
RELB	111	The Gospels	3
CPTC	111	Introduction to Computer Technology	3
PHED	111	Physical Education I	2
CWTS	111	NSTP I	3
MFCH	111	Majors' Forum	(1)
SCSS	111	Students' Convocation	(1)
Total Units			27

<u>Second Semester</u>			Units
CHEM	122	General Chemistry II Lec.	3
CHEM	122L	General Chemistry II Lab.	2
CHEM	121	Organic Chemistry I Lec.	3
CHEM	121L	Organic Chemistry I Lab.	2
ENCA	122	Communication Arts II	3
FILI	122	Pagbasa at Pagsulat	3
MATH	112	College Trigonometry	3
PHED	122	Physical Education II	2
CWTS	122	NSTP II	3
MFCH	112	Majors' Forum	(1)
SCSS	112	Students' Convocation	(1)
Total Units			26

SECOND YEAR

<u>First Semester</u>			Units
CHEM	211	Biochemistry I Lecture	3
CHEM	211	Biochemistry I Lab.	2
CHEM	213	Quantitative Ana. Chem. Lec.	3
CHEM	213L	Quantitative Ana. Chem. Lab.	2
MATH	121	Introduction to Statistics	3
PHYS	211	General Physics I Lecture	3
PHYS	211L	General Physics I Laboratory	2
MATH	122	Analytic Geometry	3
PHED	213	Physical Education III	2
EDTM	311	Basic Electricity and Electronics	2

MFCH	211	Majors' Forum	(1)
SCSS	211	Students' Convocation	(1)
Total Units			28

Second Semester

			Units
CHEM	224	Instrumental Methods of Chemical Ana. Lec.	3
CHEM	224L	Instrumental Methods of Chemical Ana. Lab.	2
CHEM	222	Organic Chemistry II Lec.	3
CHEM	222L	Organic Chemistry II Lab.	2
MATH	213	Diff. & Integral Calculus I	3
PHYS	222	General Physics II Lect.	3
PHYS	222L	General Physics II Lab.	2
RELB	122	The Destiny of Man	3
BIOL	121	Anatomy and Physiology	3
PHED	224	Physical Education IV	2
MFCH	212	Majors' Forum	(1)
SCSS	212	Students' Convocation	(1)
Total Units			28

THIRD YEAR

First Semester

			Units
CHEM		Elective 1	3
MATH	224	Diff. and Integral Calculus II	3
CHEM	214	Inorganic Chemistry	3
CHEM	311	Seminar in Chemistry	1
ENAG	214	Advanced English Grammar	3
RELB	211	Daniel and Revelation	3
HIST	111	Philippine History w/ Phil. Const.	3
BIOL	223	Microbiology and Parasitology	3
FILI	132	Masining na Pagpapahayag	3
MFCH	311	Majors' Forum	(1)
SCSS	311	Students' Convocation	(1)
Total Units			27

Second Semester

			Units
CHEM	313	Advanced Organic Chem.	3
CHEM	324	Physical Chemistry I Lec.	3
CHEM	324L	Physical Chemistry I Lab.	1
CHEM		Elective II	3
CHEM	323	Reading in Chemistry	1
RELB	224	Adventist Heritage	3
SOSC	124	Basic Economics w/ TAR	3
PHYS	111	Earth Science	3
FAHU	221	Introduction to Humanities	3
MFCH	312	Majors' Forum	(1)
SCSS	312	Students' Convocation	(1)
Total Units			25

FOURTH YEAR

First Semester

			Units
CHEM	415	Physical Chemistry II Lect.	3
CHEM	415	Physical Chemistry II Lab.	1
CHEM	416	Quantum Chemistry	3
CHEM	411	Undergraduate Thesis I	3
CHEM	417	Professional Subject Review I	4
SOSC	215	Soc.&Culture w/Family Plan.& HIV/AIDS	3
ENPL	211	Philippine Literature	3
MFCH	411	Majors' Forum	(1)
SCSS	411	Students' Convocation	(1)
Total Units			22

Second Semester

			Units
CHEM	421	Undergraduate Thesis II	3
PHIL	121	General Philosophy	3
PSYC	111	General Psychology w/ Drug Prevention	3
CHEM	418	Professional Subject Review II	4
SOSC	212	Life and Works of Rizal	3
MFCH	412	Majors' Forum	(1)
SCSS	412	Students' Convocation	(1)
Total Units			18

On-the Job Training (320 hours minimum)

Summary

GENERAL EDUCATION REQUIREMENTS	68
<i>English</i>	<i>9</i>
Communication Arts I	3
Communication Arts II	3
Advanced English Grammar	3
<i>Filipino</i>	<i>9</i>
Komunikasyon sa Akademikong Filipino	3
Pagbasa at Pagsulat Tungo sa Pananaliksik	3
Masining na Pagpapahayag	3
<i>Literature</i>	<i>3</i>
Philippine Literature (World Literature)	3
<i>Humanities</i>	<i>6</i>
Introduction to Humanities	3
General Philosophy (or Philosophy of Man)	3
<i>Mathematics</i>	<i>6</i>
College Algebra	3
Introduction to Statistics	3
<i>Natural Science</i>	<i>9</i>
Anatomy and Physiology	3
Microbiology and Parasitology	3

Earth Science / Environmental Science	3
<i>Information and Technology</i>	3
Introduction to Computer Science	3
<i>Social Science</i>	9
Basic Economics w/ Basic Taxation	3
Society and Culture w/ Family Planning & HIV/AIDS	3
General Psychology w/ Drug Prevention	3
<i>Mandated Courses</i>	6
Philippine History w/ Constitution	3
Life and Works of Rizal	3
<i>Physical Education</i>	8
Physical Education I	2
Physical Education II	2
Physical Education III	2
Physical Education IV	2
INTERNAL REQUIREMENTS	22
<i>NSTP</i>	6
NSTP I	3
NSTP II	3
<i>Vocational Education</i>	4
Home Skills	2
Any of the following:	2
Driving	
Keyboarding	
<i>Bible Courses</i>	12
The Gospels	3
The Destiny of Man	3
Daniel and Revelation	3
Adventist Heritage	3
<i>Work Education</i>	2
Work Education I	(1)
Work Education II	(1)
<i>Majors' Forum</i>	(8)
MFCH 111	(1)
MFCH 112	(1)
MFCH 211	(1)
MFCH 212	(1)
MFCH 311	(1)
MFCH 312	(1)
MFCH 411	(1)
MFCH 412	(1)
<i>Students' Convocation</i>	(8)
SCSS 111	(1)
SCSS 112	(1)
SCSS 211	(1)
SCSS 212	(1)
SCSS 311	(1)
SCSS 312	(1)

SCSS 411	(1)
SCSS 412	(1)
MAJOR COURSES	62
<i>Core Courses</i>	
General Chemistry 1 (3 units lec & 2 units lab)	5
General Chemistry 2 (3 units lec & 2 units lab)	5
Organic Chemistry 1 (3 units lec & 2 units lab)	5
Organic Chemistry 2 (3 units lec & 2 units lab)	5
Quantitative Analytical Chemistry (3 units lec & 2 units lab)	5
Instrumental Methods of Chemical Ana. (3 units lec & 2 units lab)	5
Inorganic Chemistry (3 units lec only)	3
Biochemistry (3 units lec & 2 units lab)	5
Advanced Organic Chemistry(lec only)	3
Physical Chemistry 1 (3 units Lec & 1 unit lab)	4
Physical Chemistry 2 (3 units Lec & 1 unit lab)	4
Quantum Chemistry (lec only)	3
Readings in Chemistry	1
Seminar in Chemistry	1
Professional Subject Review I	4
Professional Subject Review II	4
ELECTIVE COURSES	34
Chemistry (any two)	6
Advanced Analytical Chemistry (lec only)	3
Advanced Biochemistry (lec only)	3
Computational Methods in Chemistry (lec only, 3 units)	3
Environmental Chemistry (lec only, 3 units)	3
Industrial Chemistry (lec only, 3 units)	3
<i>Thesis/ Research and Professional Exposure</i>	6
Under graduate Thesis 1, 3 units	3
Undergraduate Thesis 2, 3 units	3
On-the-Job	
Training (min. 320 hours, non-credit)	
<i>Major Non-Chemistry Courses (Math and Physics)</i>	22
College Trigonometry	3
Analytic Geometry	3
Differential and Integral Calculus 1	3
Differential and Integral Calculus 2	3
Physics 1 (3 units lec & 2 units lab)	5
Physics 2 (3 units lec & 2 units lab)	5
GRAND TOTAL	186