

BACHELOR OF SCIENCE IN APPLIED PHYSICS

EFFECTIVE S.Y. 2018-2019

FIRST YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Phys	111	University Physics 1	3	0	3	3	None	Math111
Phys	111.1	University Physics 1.1	0	3	3	1	None	Phys111
Math	111	Calculus 1	4	0	4	4	None	None
Chem	10	Principles of Chemistry	3	6	9	5	None	None
SS	103	The Contemporary World	3	0	3	3	None	None
Math	101	Mathematics in the Modern World	3	0	3	3	None	None
PE	101	Movement Enhancement	2	0	2	2	None	None
NSTP	101	ROTC / CWTS / LTS 1	3	0	3	3	None	None
			Total		30	22		

FIRST YEAR								
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Phys	121	University Physics 2	3	0	3	3	Phys111	Math121
Phys	121.1	University Physics 2.1	0	3	3	1	Phys111.1	Phys121, Math121
Math	121	Calculus 2	4	0	4	4	Math111	None
Chem	121	Organic Chemistry 1	3	3	6	4	Chem 10	None
ES	101	Science, Technology and Society	3	0	3	3	None	None
SS	101	Understanding the Self	3	0	3	3	None	None
PE	102	Fitness Exercise and Activities	2	0	2	2	PATHFIT101	None
NSTP	201	ROTC / CWTS / LTS 2	3	0	3	3	NSTP 101	None
			Total		27	23		

SECOND YEAR

First Semester

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Chem	122	Organic Chemistry 2	3	3	6	4	Chem 121	None
Math	221	Differential Equations	3	0	3	3	Math 121	Math 131
Phys	211	University Physics 3	3	0	3	3	Phys 121, Math 121	None
Phys	211.1	University Physics 3.1	0	3	3	1	Phys 121.1	Phys 121
Math	131	Calculus 3	4	0	4	4	Math 121	Math 221
Fil	103	Rhetorika	3	0	3	3	None	None
ArtApp		Art Appreciation	3	0	3	3	None	None
PE	103	Physical Activity Towards Health and Fitness (PATH Fit) 1	2	0	2	2	None	None
			Total			27	23	

SECOND YEAR

Second Semester

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Chem	123	Analytical Chemistry 1	3	6	9	5	Chem 122	None
Phys	221	Mathematical Physics 1	3	0	3	3	Phys 211, Math 221	None
Phys	222	Classical Mechanics 1	3	0	3	3	Phys 211, Math 221	None
Phys	223	Modern Physics	3	0	3	3	Phys 211, Math 221	None
Phys	224	Electromagnetism 1	3	0	3	3	Phys 211, Math 221	None
Eng	101	Purposive Communication	3	0	3	3	None	None
PE	104	Physical Activity Towards Health and Fitness (PATH Fit) 2	2	0	2	2	None	None
			Total			26	22	

THIRD YEAR

First Semester

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Phys	311	Physical Electronics And Devices	3	3	6	4	Phys 211, Math 221	None
Phys	312	Computational Physics 1	2	3	5	3	Phys 221	None
Phys	313	Quantum Physics	3	0	3	3	Phys 223	Phys 314
Phys	314	Mathematical Physics 2	3	0	3	3	Phys 221	None
Phys	315	Electromagnetism 2	3	0	3	3	Phys 224	None
APPHY	311	Advance Laboratory 1	0	3	3	1	Math 221, Phys 211	None
SS	105	The Life And Works Of Rizal	3	0	3	3	None	None
			Total		23	21		

THIRD YEAR

Second Semester

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Phys	321	Computational Physics 2	2	3	5	3	Phys 312	None
Apphy	321	Solid State Physics	3	0	3	3	3 rd Year Regular	None
Phys	322	Thermal And Statistical Physics	3	0	3	3	Phys 211, Math 221	Apphy 322
Apphy	322	Biophysics	3	0	3	3	3 rd Year Regular	None
Apphy	323	Advance Laboratory 2	0	3	3	1	Apphy 311	None
Apphy	324	Methods Of Research	3	0	3	3	3 rd Year Regular	None
SS	102	Readings Of Philippine History	3	0	3	3	None	None
SS	201	The Entrepreneurial Mind	3	0	3	3	None	None
			Total		26	22		

THIRD YEAR

Summer

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Apphy	301	On the job training	240	0	240	4	3 rd Year Regular	None
			Total		240	4		

FOURTH YEAR***First Semester***

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Apphy	411	Microelectronics	3	0	3	3	4 th Year Regular	None
Apphy	412	Materials Physics	3	0	3	3	4 th Year Regular	None
Apphy	413	Photonics And Applied Physics	3	0	3	3	4 th Year Regular	None
Apphy	414	Undergraduate Thesis 1	3	0	3	3	4 th Year Regular	None
Elec	401	Free Elective	3	0	3	3	None	None
Fil	102	Panitikan	3	0	3	3	None	None
			Total		18	18		

FOURTH YEAR***Second Semester***

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Apphy	421	Entrepreneurial Physics	3	0	3	3	4 th Year Regular	None
Apphy	422	Instrumentation Physics	3	0	3	3	4 th Year Regular	None
Apphy	423	Undergraduate Seminar	1	0	1	1	Apphy 414	None
Apphy	424	Undergraduate Thesis 2	3	0	3	3	Apphy 414	None
Elec	402	Free Elective	3	0	3	3	None	None
SS	104	Ethics	3	0	3	3	None	None
			Total		16	16		