



University of Science and Technology of Southern Philippines

Alubijid | Cagayan de Oro | Claveria | Jasaan | Panaon | Oroquieta

BACHELOR OF SCIENCE IN APPLIED PHYSICS

EFFECTIVE S.Y. 2018-2019

<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	Math 111
Phys	111.1	University Physics 1.1	0	3	3	1	NONE	Phys 111
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 (Statistics for Engineers)	3	0	3	3	NONE	NONE
PATHFIT	101	PATHFIT 1	2	0	2	2	NONE	NONE
NSTP	101	NSTP/ROTC/CWTS/LTS	3	0	3	3	NONE	NONE
Total			21	9	30	22		
<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	Phys 111	Math 31
Phys	121.1	University Physics 2.1	0	3	3	1	Phys 111.1	Phys 121
Math	121	Calculus 2	4	0	4	4	Math 111	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
PATHFIT	102	PATHFIT 2	2	0	2	2	PATHFIT101	NONE
NSTP	102	ROTC/CWTS/LTS	3	0	3	3	NSTP 101	NONE
Total			21	6	27	23		



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<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
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
Eng	102	Art Appreciation	3	0	3	3	NONE	NONE
PATHFIT	103	PATHFIT 3	2	0	2	2	NONE	NONE
		Total	21	6	27	23		
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
c	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
PATHFIT	104	PATHFIT 4	2	0	2	2	NONE	NONE
		Total	20	6	26	22		



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<i>First Semester</i>								
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			17	9	23	21		
<i>Second Semester</i>								
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	Regular 3 rd Year	NONE
Phys	322	Thermal and Statistical Physics	3	0	3	3	Phys 211, Math 221	Apphy 322
Apphy	322	Biophysics	3	0	3	3	Regular 3 rd Year	NONE
Apphy	323	Advance Laboratory 2	0	3	3	1	Apphy 311	NONE
Apphy	324	Methods of Research	3	0	3	3	Regular 3 rd Year	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			20	6	26	22		
<i>Summer</i>								
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 Regular	NONE
Total			240	0	240	4		



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<i>First Semester</i>								
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	0	18	18		

<i>Second Semester</i>								
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	0	16	16		