



**SILLIMAN UNIVERSITY
DUMAGUETE CITY**

School/College: College of Arts and Sciences
Program Name: Bachelor of Science in Physics

FIRST YEAR

First Semester						Second Semester					
Subjects	Course Title	Lec	Lab	Units	Pre-req.	Subjects	Course Title	Lec	Lab	Units	Pre-req.
CHS 1	Reading and Interpreting Hebrew Scriptures	3		3		CHS 2	Reading and Interpreting Christian Scriptures	3		3	CHS 1
GE 1	Understanding the Self	3		3		GE 6	Art Appreciation	3		3	
GE 2	Reading in the Philippine History	3		3		GE 7	Science, Technology and Society	3		3	
GE 3	The Contemporary World	3		3		GE 8	Ethics	3		3	
GE 4	Mathematics in the Modern World	3		3		GE 9	The Life and Works of Jose Rizal	3		3	
GE 5	Purposive Communication	3		3		GE 10	Whole Person Education	3		3	
Math 23	Calculus 1	5		5	Pre-Cal & Basic Cal	Math 24	Calculus 2	5		5	Math 23
NSTP 1	National Service Training Program	3		3		NSTP 2	National Service Training Program	3		3	NSTP 1
PE 1	Physical Fitness & Swimming	2		2		PE 2	Physical Education	2		2	PE 1
PEP 1	Personal Enhancement Program	NC		NC		PEP 2	Personal Enhancement Program	NC		NC	PEP 1
	Total			28			Total			28	

SECOND YEAR

First Semester						Second Semester					
Subjects	Course Title	Lec	Lab	Units	Pre-req.	Subjects	Course Title	Lec	Lab	Units	Pre-req.
GE 11	Free Elective	3		3		CHS 3	Christianity and Peace-Building	3		3	CHS 2
Math 31	Calculus 3	5		5	Math 24	Phys 2	Selected topics in Electricity, Optics & Modern Physics	3	1	4	Phys 1
Phys 1	Selected topics in Mechanics, Acoustic & Thermodynamics	3	1	4	Calculus 1 & 2	Phys 4	Computational Physics 2	3		3	Phys 3
Phys 3	Computational Physics 1	3		3		Phys 6	Geophysics	4	1	5	
Phys 5	Basic Meteorology	4	1	5		Phys 8	Biophysics	4	1	5	
Phys 7	Basic Astronomy	4	1	5		PE 4	Physical Education	2		2	PE 3
PE 3	Physical Education	2		2	PE 2						
	Total			27			Total			22	

THIRD YEAR

First Semester						Second Semester					
Subjects	Course Title	Lec	Lab	Units	Pre-req.	Subjects	Course Title	Lec	Lab	Units	Pre-req.
Math 33	Differential Equations	3		3		Phys 10	Mathematical Physics 2	6		6	Phys 9
Phys 9	Mathematical Physics 1	6		6	SHS Phys 2 & Pre-Cal.	Phys 12	Theoretical Mechanics 2	3		3	Phys 11
Phys 11	Theoretical Mechanics 1	3		3	SHS Phys 2 & Basic Cal.	Phys 14	Special Topics	3		3	
Phys 13	Optics	4	1	5	SHS Phys 2 & Basic Cal.	Phys 16	Micro Electronics	4	1	5	
Phys 15	Fundamentals of Scientific Report	2		2	Phys 4	Phys 18	Electromagnetic Theory 2	3	1	4	Phys 17
Phys 17	Electromagnetic Theory 1	3	1	4	SHS Phys 2 & Basic Cal.	Phys 20	Computer & Data Handling	3		3	Phys 19
Phys 19	Computer Interfacing	4		4	SHS Phys 2 & Phys 4						
	Total			27			Total			24	

FOURTH YEAR

First Semester						Second Semester					
Subjects	Course Title	Lec	Lab	Units	Pre-req.	Subjects	Course Title	Lec	Lab	Units	Pre-req.
Phys 21	Modern Physics 1	3	1	4	SHS Phys 2 & Basic Cal.	Phys 22	Modern Physics 2	3	1	4	Phys 21
Phys 23	Quantum Mechanics 1	3		3	SHS Phys 2	Phys 24	Quantum Mechanics 2	3		3	Phys 23
Phys 25	Statistical Physics	4	1	5	SHS Stats & Probs	Phys 26	Experimental Physics 2	1	2	3	Phys 27
Phys 27	Experimental Physics 1	1	2	3	SHS Phys 2	Phys 28	Undergraduate Seminar	1		1	Senior Standing
Phys 29	Undergraduate Research	1	2	3	Senior Standing	Phys 30	Undergraduate Thesis	1	2	3	Phys 29
	Total			18			Total			14	

SUMMARY	
GE Subjects	36
Major Subjects	105
Major Electives	
Cognate Subjects	18
Practicum/Thesis/OJT	9
NSTP	6
PE	8
Institutional Required Subjects	6
Total	188

Remarks:

1. As of the date of the submission of this revised BS Physics curriculum to the CAS Dean's office, there is still no CHED CMO pertaining to the BS Physics curriculum.
2. Almost all of the major courses are similar to that of the BS Physics program at the National Institute of Physics of UP Diliman.
3. The over-all total number of units of this revised curriculum is equal with the existing curriculum. This is inclusive of all the mandated CHED GE courses and the SU institutional required courses.

Note: Admission requirements; All strands will be accepted/admitted

Enhancement (For Non-STEAM Senior High graduate)				
Subjects	Course Title	Lec	Lab	Units
Phys 00	Physics Augmentation	5	1	6
Math 00	Math Augmentation	5		5

Admission Requirements/Policy for incoming 1st year:

The Physics Department observes the Open Admission, Selective Retention Policy in its curricular offering.