

DEPARTMENT OF PHYSICAL SCIENCES AND MATHEMATICS
COLLEGE OF ARTS AND SCIENCES
UNIVERSITY OF THE PHILIPPINES MANILA



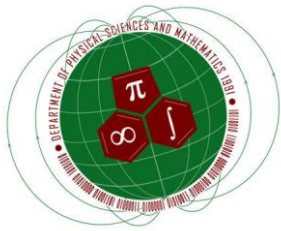
Bachelor of Science in Applied Physics (Health Physics Concentration)

First Year

1 st Semester			2 nd Semester		
Subject	Units	Prerequisites	Subject	Units	Prerequisites
(AH) Comm I (Communication Skills I)	3		(AH) Comm II (Communication Skills II)	3	Comm I
(SSP) History I (Philippine History)	3		(SSP) Soc Sci I (Foundations of Behavioral Sciences)	3	
(SSP)			Physics 71 (Elementary Physics I)	4	Math 17
Math 17 (Algebra and Trigonometry)	5		Physics 71.1 (Elementary Physics I – Laboratory)	1	Physics 71 (co-requisite)
CMSC 11 (Introduction to Computer Science)	3		Chem 14 (Fundamentals of General Chemistry I)	3	Math 17
NSTP	(3)		Chem 14.1 (Fundamentals of General Chemistry I – Laboratory)	1	Chem 14 (co-requisite)
PE1	(2)		Math 73 (Fundamentals of Analysis I)	3	Math 17
			NSTP	(3)	
			PE2	(2)	
Total	17		Total	18	

Summer

Subject	Units	Prerequisites
(MST)	3	
Math 74 (Fundamentals of Analysis II)	3	Math 73
Total	6	



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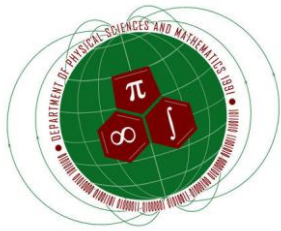


Second Year

1 st Semester			2 nd Semester		
Subject	Units	Prerequisites	Subject	Units	Prerequisites
(AH)	3		(AH)	3	
Physics 72 (Elementary Physics II)	4	Physics 71	(SSP)	3	
Physics 72.1 (Elementary Physics II – Laboratory)	1	Physics 72 (co-requisite)	Physics 73 (Elementary Physics III)	4	Physics 72
Physics 111 (Mathematical Physics I)	3	Math 74	Physics 73.1 (Elementary Physics III – Laboratory)	1	Physics 73 (co-requisite)
Bio 22 (General Zoology)	5		Physics 112 (Mathematical Physics II)	3	Physics 111
Math 75 (Fundamentals of Analysis III)	3	Math 74	Chem 32 (Chemistry of Biomolecules)	3	Chem 14
PE2	(2)		Math 121.1 (Elementary Differential Equations I)	3	Math 75
			PE2	(2)	
Total	19		Total	20	

Third Year

1 st Semester			2 nd Semester		
Subject	Units	Prerequisites	Subject	Units	Prerequisites
(MST)	3		(AH)	3	
App Physics 110 (Radiation Health Physics)	4	Bio 22	(SSP)	3	
Physics 121 (Theoretical Mechanics I)	3	Physics 73, Physics 112, Math 121.1	App Physics 158 (Computational Methods)	4	CMSC 11, Physics 73
Physics 130 (Electromagnetic Theory)	4	Physics 73, Physics 112	App Physics 163 (Optics, Light and Lasers)	3	Physics 130
Bio 25 (Vertebrate Structure and Function)	5	Bio 22	App Physics 181 (Physical Electronics I)	4	Physics 73
Total	19		Total	17	



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Fourth Year

1 st Semester			2 nd Semester		
Subject	Units	Prerequisites	Subject	Units	Prerequisites
App Physics 171 (Bioethics in Health Physics)	1	Senior Standing	App Physics 190 (Practicum) ¹	3	App Physics 171, App Physics 195
App Physics 187 (Physics of Medical Imaging)	4	App Physics 110, App Physics 163	App Physics 191 (Special Topics in Applied Physics) ²	3	Senior Standing
App Physics 195 (Biomedical Instrumentation)	4	App Physics 110	App Physics 198 (Special Problem)	3	App Physics 199
App Physics 197 (Undergraduate Seminar)	1	Senior Standing	Elective ³	3	Senior Standing
App Physics 199 (Research Methods in Applied Physics)	3	Senior Standing	Elective ⁴	3	Senior Standing
Physics 151 (Statistical and Thermal Physics)	3	Physics 121			
Total	16		Total	17	

GE Courses (Students are required to take following number of GE courses.)

- AH (Arts and Humanities) Cluster – 15 units
 - Comm I and Comm II are required GE courses across all degree programs in UP Manila.
 - 9 units of AH courses to be selected by students
- SSP (Social Science and Philosophy) Cluster – 15 units
 - Soc Sci I and History I are required GE courses across all degree programs in UP Manila.
 - 9 units of SSP courses to be selected by students
- MST (Math, Science and Technology) Cluster – 12 units
 - 12 units of SSP courses to be selected by students

¹ Required to have 200 hours of work with any program committee-approved institution.

² Current advances and trends in Materials Science (particularly Biomaterials), Nanotechnology, Biophysics/Bioengineering, Biophotonics, Advanced Microscopy, etc.

³ May take any natural science, health science, or math elective. Physics 141 is a required elective for those who will pursue a graduate degree in Physics.

⁴ May take any natural science, health science, or math elective. Physics 141 is a required elective for those who will pursue a graduate degree in Physics.