



**BS Physics with Specialization in Materials Science
Program of Study**

First Year

TERM 1	
Course Title	Units
Foundation Course in Physics	3
Foundation Course in Chemistry	3
Foundation Course in Mathematics	5
Basic Statistics	3
Lasallian Studies 1	(1)
Lasare 1	0
National Service Training Program-General Orientation	0
Total	14(1)
TERM 2	
Course Title	Units
Mathematics in the Modern World	3
P.E. 1	2
Physics Fundamentals – Waves & Optics	3
Physics Fundamentals Lab 1	1
Physics Problems 1	1
Analysis 1	4
Computer for Physics 1	3
Total	17
TERM 3	
Course Title	Units
Filipino 1	3
P.E. 2	2
Physics Fundamentals – Elasticity, Fluids, Heat & Thermodynamics	3
Physics Fundamentals Lab 2	1
Analysis 2	3
Advanced Statistics	3
Organic Chemistry	3
CWTS Formation Phase / Military Science 1: ROTC Common Module	(3)
Total	18(3)

Second Year

TERM 4	
Course Title	Units
Filipino 2	3
P.E. 3	2
Mathematical Methods of Physics 1	4
Mathematical Methods of Physics 2	3
Electronics 1	3
Electronics Laboratory 1	1
Physics Problems 2	1
Organic Chemistry Lab	1
Lasallian Studies 2	1
Lasare 2	0
CWTS Community Service Phase/ ROTC Military Science 2: Service Oriented Module	(3)
Total	18(4)
TERM 5	
Course Title	Units
Purposive Communications	3
P.E. 4	2
Mathematical Methods of Physics 3	3
Mathematical Methods of Physics 4	3
Modern Physics	3
Physics Fundamentals Lab 3	1
Introduction to Materials Science 1 - Nanotechnology & Energy	3
Total	18
TERM 6	
Course Title	Units
A Faith Worth Living	3
Understanding the Self	3
Classical Mechanics 1	3
Quantum Mechanics 1	3
Physics Problems 3	1
Introduction to Materials Science 2 - Biomaterials & Sensors	3
Materials Science Laboratory 1 - Fabrication & Testing	2
Research Apprenticeship 1	0.5
Total	18.5



Third Year

TERM 7	
Course Title	Units
Art Appreciation	3
Ethics	3
Classical Mechanics 2	3
Quantum Mechanics 2	3
Electronics 2	3
Electronics Laboratory 2	1
Materials Science Laboratory 2 - Materials Characterization	1
Research Apprenticeship 2	0.5
Lasallian Studies3	(1)
Lasare3	0
Total	17.5(1)
TERM 8	
Course Title	Units
Life and Works of Rizal	3
Science, Technology and Society	3
Electricity and Magnetism 1	3
Statistical Mechanics	3
Materials Structure and Characterization	3
Physics Problems 4	1
Physics Seminar	1
Research Apprenticeship 3	0.5
Total	17.5
TERM 9	
Course Title	Units
The Philippines and the ASEAN	3
Panitikan	3
Solid State Physics	3
Computer for Physics 2	3
Physics Research 1	1
Failure Analysis	3
Introduction to Photonics	3
Introduction to Photonics Laboratory	1
Total	20

Fourth Year

TERM 10	
Course Title	Units
Following Jesus in the Gospels	3
Electricity and Magnetism 2	3
Computational Methods	3
Physics Research 2	1
Semiconductor Physics & Devices	3
Analytical Chemistry	3
Analytical Chemistry	1
Total	17
TERM 11	
Course Title	Units
Practicum for Physics Majors/ Global Enrichment	3
Physics Research 3	1
Total	4
TERM 12	
Course Title	Units
Readings in the Philippine History	3
The Contemporary World	3
Total	6

Total Academic Units: **185.5**
Total Non-academic Units: **(9)**