

# PHYSICS – GENERAL (SCIENCE) – BACHELOR OF SCIENCE

## PHYS-G-BSC

**Subject:** Administered by the Department of Physics, Engineering Physics and Astronomy.

**Plan:** Consists of 48.00 units as described below.

**Program:** The Plan, with sufficient electives to total 90.00 units will lead to a Bachelor of Science Degree.

Code	Title	Units
<b>1. Core</b>		
<b>A. Complete 6.00 units from the following:</b>		<b>6.00</b>
PHYS 104	Fundamental Physics	
PHYS 106	General Physics	
<b>B. Complete the following:</b>		
PHYS 206	Dynamics	3.00
PHYS 212	Vibrations and Waves	3.00
PHYS 213	Computational Methods in Physics	3.00
PHYS 239	Electromagnetism	3.00
PHYS 242	Relativity and Quanta	3.00
PHYS 250	Foundations of Experimental Physics	3.00
<b>C. Complete 6.00 units from the following:</b>		<b>6.00</b>
PHYS 344	Introduction to Quantum Mechanics	
PHYS 372	Thermodynamics	
<b>2. Option</b>		
<b>A. Complete 6.00 units from the following:</b>		<b>6.00</b>
PHYS 216	Introduction to Astrophysics	
PHYS at the 300-level or above		
<b>3. Supporting</b>		
<b>A. Complete 6.00 units from the following:</b>		<b>6.00</b>
MATH 120	Differential and Integral Calculus	
MATH 121	Differential and Integral Calculus	
MATH 123	Differential and Integral Calculus I & MATH 124 and Differential and Integral Calculus II	
<b>B. Complete 6.00 units from the following:</b>		<b>6.00</b>
MATH 221	Vector Calculus	
or MATH 220 Advanced Calculus		
and		
MATH 225	Ordinary Differential Equations	
or MATH 221 Differential Equations		
<b>Electives</b>		
Elective Courses		42.00
<b>Total Units</b>		<b>90.00</b>

## 4. Notes

A. When used towards the requirements of a B.Sc. Program, a total of 48.00 units, including the Plan units, must be in the physical and natural sciences or mathematics.

B. A maximum of 6.00 units from courses offered by other Faculties and Schools may be counted toward the program and/or Plan requirements. This includes courses in BMED, COMM, GLPH, LAW, NURS and courses in the Faculty of Engineering and Applied Science.