

2018 Bachelor of Science in Applied Physics Curriculum

FIRST YEAR

First Semester

PHYS 101	Newtonian Mechanics	4
CHEM 18	University Chemistry	3
CHEM 18.1	University Chemistry lab	2
MATH 27	Analytic Geometry and Calculus II	3
ARTS 1	Critical Perspective in the Arts	3
KAS 1 or HIST 1	Kasaysayan ng Pilipinas or Philippine History	3
HK 11	Wellness and Basic Injury Management	(2)

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Second Semester

PHYS 102	Electromagnetism and Optics <i>Pr PHYS 101</i>	4
PHYS 111	Mathematical Methods of Physics I <i>Pr MATH 27 or MATH 37</i>	4
MATH 28	Analytic Geometry and Calculus III <i>Pr MATH 27</i>	3
COMA 150	Workplace Communication	3
GE Elective		3
HK 12 or HK 13		(2)

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SECOND YEAR

First Semester

APHY 10.1	Programming in Physics	1
APHY 101	Physic of Scientific Instruments <i>Pr PHYS 72 & 72.1 or PHYS 102</i>	3
PHYS 103	Mechanical Waves, Optics and Thermodynamics <i>Pr PHYS 102</i>	4
PHYS 112	Mathematical Methods of Physics II <i>Pr PHYS 111 and MATH 28 or MATH 38</i>	4
ETHICS 1	Ethics and Moral Reasoning	3
GE Elective		3
HK 12 or HK 13		(2)
NSTP 1		(3)

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Second Semester

PHYS 104	Modern Physics <i>Pr. PHYS 103</i>	4
PHYS 113	Mathematical Methods of Physics III <i>Pr PHYS 112</i>	4
PHYS 121	Theoretical Mechanics I <i>Pr PHYS 101 and PHYS 111</i>	3
PHYS 131	Electromagnetic Theory I <i>Pr PHYS 102 and PHYS 112</i>	3
GE Elective		3
HK 12 or HK 13		(2)
NSTP 2		(3)

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HK 12. Human Kinetics Activities

HK 13. Advanced Human Kinetics Activities

NSTP. National Service Training Program
(ROTC or CWTS or LTS)

THIRD YEAR

First Semester

APHY 102	Physics of Electronic Devices <i>Pr PHYS 72 & 72.1 or PHYS 102</i>	3
PHYS 115	Computational Physics <i>Pr APHY 10.1</i>	4
PHYS 122	Theoretical Mechanics II <i>Pr PHYS 121</i>	3
PHYS 132	Electromagnetic Theory II <i>Pr PHYS 113 and PHYS 131</i>	3
PHYS 192.1	Experimental Physics I <i>Pr PHYS 104 or PHYS 72 & 72.1</i>	2
PI 10	The Life and Works of Jose Rizal	3

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Second Semester

PHYS 141	Quantum Physics I <i>Pr PHYS 104 and PHYS 113</i>	3
PHYS 151	Statistical Physics I <i>Pr PHYS 112 and PHYS 121</i>	3
PHYS 165	Optical Physics <i>Pr PHYS 131</i>	3
PHYS 195	Research Methods in Physics <i>Pr PHYS 102</i>	3
COMM 10	Critical Perspectives in Communication	3
APHYS/PHYS Elective		3

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Midyear

APHY 198	Practicum <i>Pr COI</i>	3
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FOURTH YEAR

First Semester

APHY 200	Undergraduate Thesis <i>Pr COI</i>	3
PHYS 142	Quantum Physics II <i>Pr. PHYS 141</i>	3
APHYS/PHYS Elective		3
APHYS/PHYS Elective		3
APHYS/PHYS Elective		3
Free Elective		3

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Second Semester

APHY 191	Special Topics <i>Pr COI</i>	3
APHY 199	Undergraduate Seminar <i>Pr COI</i>	1
APHY 200	Undergraduate Thesis <i>Pr COI</i>	3
STS 1	Science, Technology and Society	3
APHYS/PHYS Elective		3
Free Elective		3

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Total Number of Units = 143

GE Plan of Study is accomplished in the First Semester of the First Year.

GE Electives should be reflected in the approved GE Plan of Study.

BS APHY Plan of Study is accomplished in the _____ Semester of the _____ Year.

APHYS/PHYS Elective and Free Elective courses should be reflected in the approved BS APHY Plan of Study.