## NATIONAL INSTITUTE OF PHYSICS

College of Science
University of the Philippines
B.S. Physics Program

Effective: First Semester, A.Y. 2012-2013

| First Year, First Semester |  | First Year, Second Semester |  |
| :---: | :---: | :---: | :---: |
| Math 14 (Plane Trigonometry) ${ }^{1}$ | 3 | Physics 101 (Fundamental Physics I) | 4 |
| Math 53 (Elementary Analysis I) ${ }^{1}$ | 5 | Physics 101.1 (Fundamental Physics I Laboratory) | 1 |
| Geology 11 (Principles of Geology) | 3 | Math 54 (Elementary Analysis II) ${ }^{1}$ | 5 |
| Geology 11.1 (Laboratory in Principles of Geology) | 1 | Chemistry 16 (General Chemistry I) | 5 |
| English 10 (College English) | 3 | Communication 3 (Practical Speech Fundamentals) | 3 |
| Physics 10 (Physics \& Astronomy for Pedestrians) | 3 | PE | (2) |
| PE | (2) |  |  |
|  | 18 |  | 18 |
| Second Year, First Semester |  | Second Year, Second Semester |  |
| Physics 102 (Fundamental Physics II) | 4 | Physics 103 (Fundamental Physics III) | 4 |
| Physics 102.1 (Fundamental Physics II Laboratory) | 1 | Physics 103.1 (Fundamental Physics III Laboratory) | 1 |
| Physics 111 (Mathematical Physics I) | 3 | Physics 112 (Mathematical Physics II) | 3 |
| Math 55 (Elementary Analysis III) | 3 | Math 121.1 (Elementary Differential Equations) | 3 |
| Chemistry 17 (General Chemistry II) | 5 | Biology 11 (Fundamentals of Biology I) | 5 |
| Philosophy 1 (Philosophical Analysis) | 3 | Kasaysayan 1 (Kasaysayan ng Pilipinas) | 3 |
| PE | (2) | PE | (2) |
|  | 19 |  | 19 |
| Third Year, First Semester |  | Third Year, Second Semester |  |
| Physics 104 (Modern Physics I) | 4 | App Physics 155 (Computer Methods in Physics I) | 4 |
| Physics 104.1 (Modern Physics I Laboratory) | 1 | App Physics 181 (Physical Electronics I) | 4 |
| Physics 113 (Mathematical Physics III) | 3 | Physics 122 (Theoretical Mechanics II) | 3 |
| Physics 121 (Theoretical Mechanics I) | 3 | Physics 132 (Electromagnetic Theory II) | 3 |
| Physics 131 (Electromagnetic Theory I) | 3 | Physics 141 (Quantum Physics I) | 3 |
| G.E. (Arts \& Humanities - 1) | 3 |  |  |
|  | 17 |  | 17 |
| Fourth Year, First Semester |  | Fourth Year, Second Semester |  |
| Physics 114 (Mathematical Physics IV) | 3 | Physics 151 (Statistical Physics I) | 3 |
| Physics 142 (Quantum Physics II) | 3 | Physics 180 (Nuclei \& Particles) | 3 |
| Physics 165 (Optical Physics I) | 3 | Physics 192 (Experimental Physics II) | 3 |
| Physics 170 (Condensed Matter) | 3 | Physics/App Physics Elective 2 | 3-5 |
| Physics 191 (Experimental Physics I) | 5 | GE (Social Science \& Philosophy - 2) | 3 |
| Filipino 40 (Wika, Kultura at Lipunan) | 3 | NSTP | (3) |
| NSTP | (3) |  | 15-17 |
|  | 20 |  |  |
| Fifth Year, First Semester |  | Fifth Year, Second Semester |  |
| Physics 152 (Statistical Physics II) | 3 | Physics 196 (Undergraduate Seminar) | 1 |
| Physics/App Physics Elective ${ }^{2}$ | 3-5 | Physics 200 (Undergraduate Thesis) | 3 |
| Physics 199 (Undergraduate Research) | 3 | Science/Math Elective ${ }^{3}$ | 3-5 |
| STS | 3 | GE (Arts \& Humanities - 2) | 3 |
| G.E. (Arts \& Humanities - 1) | 3 | GE (Social Science \& Philosophy - 3) | 3 |
|  |  | P.I. 100 (The Life and Works of Jose Rizal) | 3 |
|  | 15-17 |  | 16-18 |

## Total Number of Units: 174-180

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[^0]:    ${ }^{1}$ Math 14 and Math 53 are to be taken together provided the student passed the APE in Math 11. Otherwise the student must take Math 17 in the 1st year/1st semester (in place of Math 14 and Math 53); Math 53 in the 1st year/2nd semester (in place of Math 54); and Math 54 in the immediately following summer session.
    ${ }^{2}$ May be chosen from Physics 135, 161, 195 or App Physics courses.
    ${ }^{3}$ May be chosen, upon the consent of the adviser, from courses in natural sciences or mathematics.
    Note: As a requirement for graduation, all students are required to take (6) units in one of National Service Training Program (NSTP) components.
    ROTC and Civic Welfare Training Service are offered by UPD.

