# UNDERGRADUATE ADVISING FORM – PHYSICS DEPARTMENT

**Student Name:** _____ **Student ID#: N** _____

**Current Major:** _____ **Year:** FR SO JR SR **email:** _____

**Reason for visit:**

**GENERAL:**
- ☐ General Consultation
- ☐ Declaration of Physics Major
- ☐ Declaration of Physics/Astronomy Minor
- ☐ Discuss future Declaration of Physics Major/Minor
- ☐ Discuss next semester schedule (see course list on back of form)
- ☐ Clear for Registration

**NOTES:** _____

**WAIVERS**:
- ☐ Waive Prerequisite
- ☐ Waive Course Requirement
- ☐ Course Substitution
- ☐ Accept Transfer Credit for a Course
- ☐ Accept AP Credit for a Course
- ☐ Problem on Degree Progress Report

**NOTES:** _____

**OTHER:** _____

_____ _____

**Physics Advisor Signature** **Date**

**You are advised to take the following courses** _____ **:**

**Semester & year**

**BACHELOR OF ARTS PROGRAM IN PHYSICS:**

**YEAR I:**
- ☐ MATH-UA 121 Calculus I
- ☐ MATH-UA 122 Calculus II
- ☐ PHYS-UA 91 Physics I (fall)
- ☐ PHYS-UA 71 Introductory Experimental Physics I Lab (fall)
- ☐ PHYS-UA 93 Physics II (spring)
- ☐ PHYS-UA 72 Introductory Experimental Physics II Lab (spring)

**YEAR II:**
- ☐ MATH-UA 123 Calculus III
- ☐ PHYS-UA 95 Physics III (fall)
- ☐ PHYS-UA 73 Intermediate Experimental Physics I Lab (fall)
- ☐ PHYS-UA 106 Mathematical Physics (spring)
- ☐ PHYS-UA 120 Dynamics (spring)
- ☐ PHYS-UA 74 Intermediate Experimental Physics II Lab (spring)

**YEAR III:**
- ☐ PHYS-UA 131 Electricity & Magnetism I (fall)
- ☐ PHYS-UA 123 Quantum Mechanics I (fall)
- ☐ PHYS-UA 140 Thermal & Statistical Physics (spring)
- ☐ PHYS-UA 112 Advanced Experimental Physics (each semester)

**YEAR III & IV:** *Two electives from the following list (course # must be equal to or higher than PHYS-UA 110)*

- ☐ PHYS-UA 110 Electronics for Scientists
- ☐ PHYS-UA 115 Advanced Math Physics*
- ☐ PHYS-UA 124 Quantum Mechanics II
- ☐ PHYS-UA 132 Electricity & Magnetism II
- ☐ PHYS-UA 135 Condensed Matter Physics*
- ☐ PHYS-UA 136 Readings in Particle Physics*
- ☐ PHYS-UA 138 Quantum Information*
- ☐ PHYS-UA 150 Astrophysics*
- ☐ PHYS-UA 160 Physics of Biology*
- ☐ PHYS-UA 170 General Relativity (spring)
- ☐ PHYS-UA 180 Intro to Fluid Dynamics (sp.)
- ☐ PHYS-UA 190 Philosophy of Physics*
- ☐ PHYS-UA 210 Computational Physics (fall)
- ☐ PHYS-UA 800 Special Topics in Physics

*every other year

**BS PROGRAM:**

**All BA requirements except <u>one elective only</u> and:**
- ☐ PHYS-UA 210 Computational Physics (fall)
- ☐ CHEM-UA 101 General Chemistry I or higher
- ☐ CHEM-UA 102 General Chemistry II or higher
- ☐ BIOL-UA 11 Principles of Biology or higher **OR** Chemistry, higher than CHEM-UA 102

**OTHER PHYSICS COURSES taken by the Physics Minor:**

- ☐ PHYS-UA 7 The Universe: Its Nature and History (spring)
- ☐ PHYS-UA 11 General Physics I (fall)
- ☐ PHYS-UA 12 General Physics II (spring)
- ☐ PHYS-UA 13 Observational Astronomy (fall or spring)
- ☐ PHYS-UA 15 Introduction to Cosmology (fall or spring)
- ☐ PHYS-UA 20 20th Century Concepts of Space, Time and Matter (each semester)

**MINOR IN PHYSICS, MINOR IN ASTRONOMY:**
**The following four courses**: PHYS-UA 11 General Physics I, PHYS-UA 12 General Physics II, PHYS-UA 15 Introduction to Cosmology, and PHYS-UA 20 20th Century Concepts of Space, Time, and Matter; any course equal to or higher than PHYS-UA 91; *OR, any 3 of the above courses and one of the following*: PHYS-UA 7 The Universe, PHYS-UA 13 Observational Astronomy, PHYS-UA 150 Astrophysics. **Minor in Astronomy** consists of four courses: PHYS-UA 7 and the following (or two of the following, and one of the courses listed under the minor in physics, except PHYS-UA 15): PHYS-UA 13, PHYS-UA 15, PHYS-UA 150.

**You are advised to take the following courses** _____ **:**
**semester/year**

**JOINT PROGRAM WITH NYU TANDON SCHOOL OF ENGINEERING:**
The department offers a joint five-year Dual Degree Program in Engineering with the Tandon School of Engineering of NYU. Students receive the Bachelor of Science degree from the College of Arts and Science at New York University and the Bachelor of Science degree from the Polytechnic Institute of NYU. Further information about the program is available from Tyrell Davis in the Student Advising Center, room 905, Silver Building, (212) 998-8130.

**INDEPENDENT STUDY**
PHYS-UA 997, 998 may be taken by all students, by permission of the DUGS, who have interests that are not included in the curriculum or who wish to carry out research under faculty supervision.

**HONORS PROGRAM***
Candidates for a degree with honors complete a two-term research experience which culminates in either a written senior thesis or an oral defense of the thesis. Final honors projects may be evaluated by a faculty advisor or by a committee. They are expected to have a minimum GPA of 3.65, both overall and in the major. Consult with the Director of Undergraduate Studies.

*See Director of Undergraduate Studies.