PHYSICS SECOND MAJOR FOR ISP STUDENTS

Students must also complete the Undergraduate Registration Requirement (https://catalogs.northwestern.edu/undergraduate/requirements-policies/undergraduate-registration-requirement/) and the degree requirements of their home school.

The Integrated Science Program is a highly selective BA program in Weinberg College that includes the following as part of its curriculum:

**Course** | **Title**
--- | ---
PHYSICS 125-1 & PHYSICS 125-2 & PHYSICS 125-3 & PHYSICS 126-1 & PHYSICS 126-2 & PHYSICS 126-3 | General Physics ISP and General Physics for ISP and General Physics for ISP and Physics for ISP Laboratory and Physics for ISP Laboratory and Physics for ISP Laboratory
PHYSICS 339-1 & PHYSICS 339-2 | Quantum Mechanics and Quantum Mechanics
PHYSICS 339-3 | Particle and Nuclear Physics
or PHYSICS 337-0 | Physics of Condensed Matter
ASTRON 331-0 | Astrophysics ISP

Application to this program is made directly to ISP.

It is possible to complete a double major in physics and ISP by completing the following 6 additional upper-level courses:

**Course** | **Title**
--- | ---
PHYSICS 330-1 & PHYSICS 330-2 | Classical Mech and Classical Mechanics
or PHYSICS 333-1 & PHYSICS 333-2 | Advanced Electricity & Magnetism and Advanced Electricity & Magnetism
1 lab course from:
ASTRON 321-0 | Observational Astrophysics
PHYSICS 357-0 | Optics Laboratory
PHYSICS 359-0 | Electronics
PHYSICS 360-0 | Advanced Physics Laboratory
Plus 3 courses chosen from 300-level physics or astronomy courses other than:
PHYSICS 311-1 & PHYSICS 311-2 | Mathematical Tools for the Physical Sciences and Mathematical Tools for the Physical Sciences
PHYSICS 312-0 | Scalar and Vector Field Methods in Physics
PHYSICS 398-0 | Independent Thesis Research
PHYSICS 399-0 | Independent Study
ASTRON 398-0 | Honors Independent Study
ASTRON 399-0 | Independent Study
And other than those required by ISP:
PHYSICS 339-1 & PHYSICS 339-2 | Quantum Mechanics and Quantum Mechanics
PHYSICS 339-3 | Particle and Nuclear Physics
or PHYSICS 337-0 | Physics of Condensed Matter
ASTRON 331-0 | Astrophysics ISP

• Students pursuing an ISP/physics double major may not substitute INTG_SCI 398-0 for any physics or math course in the ISP curriculum. They do not have to choose a physics course concentration.

Honors in Physics and Astronomy

Majors with strong records in their physics, astronomy, and mathematic courses and an interest in pursuing honors should notify the director of undergraduate studies in October of senior year. Eligible students must enroll for 2 units of PHYSICS 398-0 Independent Thesis Research or PHYSICS 399-0 Independent Study by the time of graduation. They participate in research culminating in a written report.

Students whose research reports and grades meet department criteria are recommended to the college for graduation with honors. For more information consult the director of undergraduate studies and see Honors in the Major (https://catalogs.northwestern.edu/undergraduate/arts-sciences/#academicoptionstext).