

PHYSICS

The physics program offers instruction in the fundamental laws of the discipline as it strengthens a student's ability to see how these laws apply to all the sciences and everyday occurrences. Physics is part of the natural, mathematical, and biomedical sciences discipline in the Columbian College of Arts and Sciences. Through courses ranging from classical mechanics to electromagnetic theory, the physics program prompts students to use mathematical logic, deductive reasoning, developed intuition, and careful observation.

Visit the Department of Physics website (<https://physics.columbian.gwu.edu/>) for additional information.

UNDERGRADUATE

Bachelor's programs

- Bachelor of Arts with a major in physics (<http://bulletin.gwu.edu/arts-sciences/physics/ba/>)
- Bachelor of Science with a major in astronomy and astrophysics
- Bachelor of Science with a major in physics (<http://bulletin.gwu.edu/arts-sciences/physics/bs/>)
- Bachelor of Science with a major in biophysics (<http://bulletin.gwu.edu/arts-sciences/physics/bs-biophysics/>)

Minors

- Minor in astronomy and astrophysics (<http://bulletin.gwu.edu/arts-sciences/physics/minor-astronomy-astrophysics/>)
- Minor in biophysics (<http://bulletin.gwu.edu/arts-sciences/physics/minor-biophysics/>)
- Minor in physics (<http://bulletin.gwu.edu/arts-sciences/physics/minor/>)

GRADUATE

Master's program

- Master of Science in the field of physics (<http://bulletin.gwu.edu/arts-sciences/physics/ms/>)

Doctoral program

- Doctor of Philosophy in the field of physics (<http://bulletin.gwu.edu/arts-sciences/physics/phd/>)

FACULTY

Professors W.J. Briscoe (*Chair*), A. Eskandarian, G. Feldman, C. Kouveliotou, F.X. Lee, M.E. Reeves, I. Strakovsky (*Research*), C. Zeng

Associate Professors A. Afanasev, A. Alexandru, K.S. Dhuga, E.J. Downie, H. Griesshammer, H. Haberzettl, W. Peng, R.L. Workman (*Research*)

Assistant Professors M. D#ring, S. Guiriec, O. Kargaltsev, B.C. Kung, G. Lan, X. Qiu, A.J. van der Horst

Adjunct Professors I. Moskowitz, G. White

Professorial Lecturers N. Jha, L. Medsker, M. Lujan, C. O'Donnell

COURSES

Explanation of Course Numbers

- Courses in the 1000s are primarily introductory undergraduate courses
- Those in the 2000s to 4000s are upper-division undergraduate courses that can also be taken for graduate credit with permission and additional work
- Those in the 6000s and 8000s are for master's, doctoral, and professional-level students
- The 6000s are open to advanced undergraduate students with approval of the instructor and the dean or advising office

Departmental prerequisite: Consent of a departmental graduate advisor is required for admission to all graduate courses in physics.

- Astronomy (ASTR) (<http://bulletin.gwu.edu/courses/astr/>)
- Physics (PHYS) (<http://bulletin.gwu.edu/courses/phys/>)