

PHYSICS AND ASTRONOMY

College of Arts and Sciences

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Edward Hellen, *Department Head*
Ian Beatty, *Director of Undergraduate Studies*

Physics and astronomy have long been recognized as constituting the basis for study, research, and understanding in the natural sciences. The undergraduate major program seeks to provide the student with a broad and general background in all areas of physics. With this background, the student should be able to adapt readily to the specialized requirements of a job in industry or pursue graduate study in physics, engineering, and other related fields.

The faculty members are involved with students in research in observational astrophysics and spectroscopic analysis, computer simulation and computational physics, biophysics, and nuclear physics. The department manages the Three College Observatory, located in a nearby dark-sky location. This observatory contains a large (32 inch) reflecting telescope, along with a low light-level image acquisition system and a high resolution spectrograph.

The effort required for a non-scientist to understand our technological society is formidable, but essential if an educated person is to intelligently understand and affect our natural surroundings. Recognizing this, the Department of Physics and Astronomy offers for the non-major, with no prerequisites, courses with overviews of physics and astronomy.

Non-Major Courses

Courses with no prerequisites that offer overviews of physics and astronomy.

Code	Title	Credit Hours
AST 233	Astronomy: The Solar System	
AST 235	Astronomy: Stars and Galaxies	
PHY 205	Conceptual Physics	
PHY 333	Selected Topics	

Professor

Anatoly Miroshnichenko^G

Associate Professor

Ian D Beatty^G

Edward H. Hellen^G

Promod R. Pratap^G

Assistant Professor

Alicia N Aarnio

Ron Belmont

Lecturer

Alan D Covell

- Physics, B.A. (<https://catalog.uncg.edu/arts-sciences/physics-astronomy/physics-ba/>)
- Physics, B.S. (<https://catalog.uncg.edu/arts-sciences/physics-astronomy/physics-bs/>)
- Physics Undergraduate Minor (<https://catalog.uncg.edu/arts-sciences/physics-astronomy/physics-minor/>)
- Physics and Astronomy Second Academic Concentration (<https://catalog.uncg.edu/arts-sciences/physics-astronomy/physics-astronomy-second-academic-concentration/>)

^G Graduate-level faculty