PHYSICS, B.S. - GENERAL

The program outline and graduation requirements are listed below. In addition, free electives are selected to reach 120 credits overall required for graduation.

The department website provides an overview of the program, admission requirements (when applicable), faculty biographies, learning outcomes, and careers: https://www.southernct.edu/academics/physics/programs

GENERAL EDUCATION REQUIREMENTS

All bachelor’s degree programs include liberal education (LEP) and writing (W) course requirements. Detailed information on these requirements is published in this section of the catalog: https://catalog.southernct.edu/undergraduate/general-information/lep.html.

Writing courses are not additional course requirements, course sections that meet this requirement are designated with a ‘W’ on the class schedule. Courses in the major and/or cognate may also be used to satisfy LEP requirements where noted below (*).

MAJOR REQUIREMENTS (39 Credits)

- PHY 230 — Physics for Scientists and Engineers I (‘C-’ or better)
- PHY 231 — Physics for Scientists and Engineers II (‘C-’ or better)
- PHY 309 — Modern Physics (‘C-’ or better)
- PHY 370 — Modern Physics Laboratory (‘C-’ or better)
- PHY 400 - Classical Mechanics I
- PHY 401 - Classical Mechanics II
- PHY 406 - Electricity and Magnetism
- PHY 461 — Methods in Physics Research
- EGR 471 - Capstone Experience in Engineering or PHY 471 - Capstone Experience in Physics (T3)*
- Select an additional 12 credits of PHY; No more than 8 credits numbered below PHY 220

COGNATE REQUIREMENTS (26 Credits)

- CHE 120 - General Chemistry I (T2PR)*
- CHE 121 - General Chemistry II
- MAT 150 – Calculus I (T1QR)*
- MAT 151 – Calculus II
- MAT 252 – Calculus III
- MAT 245 - Differential Equations
- Select one CSC course numbered 102 or higher