

PHYSICS, BACHELOR OF SCIENCE (BS) / PRE-ENGINEERING (PITT) (3+2)

Program Learning Outcomes

L01: Graduates will demonstrate a comprehensive understanding of core physics concepts including mechanics, electromagnetism, thermal and statistical physics, and quantum mechanics (UGO 02, 03, 04)

L02: Graduates will be skilled in using physical laws, relevant mathematical and statistical techniques, and computational tools to model physical systems and solve complex problems across various domains in physics. (UGO 02, 03, 04, 06)

L03: Graduates will possess hands-on experience in designing, conducting, and analyzing experiments using appropriate laboratory equipment and techniques. (UGO 02, 04, 06)

L04: Graduate will demonstrate the ability to effectively communicate complex physical concepts and results through oral presentations, written reports, and visual aids tailored to diverse audiences. (UGO 01, 05)

L05: Graduates will be capable of collaborating effectively within diverse, interdisciplinary teams and recognize the significance of professional integrity in scientific practices. (UGO 07, 08, 09, 10)

Related Links

Physics - Pre-Engineering PITT, BS Program Page (<https://www.sru.edu/academics/majors-and-minors/pre-engineering-with-pitt/>)

Physics Fact Sheet URL (<https://www.sru.edu/documents/programs/factsheets/undergraduate/physics-fs.pdf>)

Professional Licensure/Certification Page (<https://www.sru.edu/students/student-consumer-information/professional-licensures/>)