This major provides a solid foundation in the fundamental concepts of classical and quantum physics through a variety of tools that include abstract thought, experimentation & observation, data analysis, and mathematical modeling. The foundation provided prepares students for further study in graduate and professional schools and for careers as scientists or engineers who will participate in the creation of the science and technology of the future.

**BACHELOR OF ARTS (BA) AND BACHELORS OF SCIENCE (BS) REQUIREMENTS OVERVIEW**

**Ten Lower Division Courses**
- Fundamentals of Physics I, II, and III
- Freshman Colloquium
- General Chemistry A & B
- Calculus I, II, and III
- Mathematics of Physics and Engineering I

**Six Upper Division Courses**
- Mechanics
- Introduction to Thermodynamics and Statistical Physics
- Electricity and Magnetism A
- Introduction to Quantum Mechanics and its Applications A
- Mathematics of Physics and Engineering II
- Senior Laboratory

**Students pursuing a Bachelor of Arts degree will choose one course out of the following, while students pursuing a Bachelor of Science degree will take all four:**
- Electricity and Magnetism B
- Introduction to Quantum Mechanics and its Applications B
- Introduction to Solid State Physics
- Advanced Experiment Techniques

**EXPERIENTIAL OPPORTUNITIES**

- **Society of Physics Students:** SPS seeks to create a tight-knit community of those interested in physics & astronomy and to provide opportunities for students to attend lectures and take field trips to sites including the NASA Jet Propulsion Laboratory.

- **Supplemental Instruction:** This academic support program provides regularly scheduled, peer-led study sessions for common Biology, Chemistry, Math, and Physics courses.

- **Senior Project:** Students construct an original project applying computer technology (in either hardware or software) to produce a result useful in the physics classroom or laboratory.

For additional information, including all major requirements, please consult the USC Catalogue or http://dornsife.usc.edu/physics/physics/