

Coastal Carolina University

Goals and Objectives for the Physics Program

Revised Fall 2004

Goals:

- I. Develop strong student competencies in physics and its applications in a technology-rich, interactive environment.
- II. Develop strong student skills in the research, analysis and interpretation of complex information.
- III. Prepare students to successfully compete for employment or to succeed in graduate school.

Objectives:

When students complete the program in Applied Physics, they will be able to:

1. demonstrate understanding of the principles and concepts of classical physics
2. demonstrate understanding of the concepts and applications of modern physics
3. integrate and apply the concepts of physics to related disciplines, e.g. engineering and the earth sciences
4. exhibit proficiency in the use of technology and appropriate tools used in applications of physics
5. utilize research methods and data analysis to predict the outcome of experiments
6. demonstrate their knowledge of physics and the scientific method in conducting independent scientific research
7. interact effectively with their peers and mentors
8. transfer their scientific knowledge to their peers and to the larger community through written and verbal communication