



1. Title: **Mathematics and Science: Physics**

2. Summary of Goals—Learning Outcomes:

At the completion of courses for a Physics major at Golden West College, students should have:

- An understanding of the basic principles and concepts of physics.
- The ability to use these principles and concepts in solving problems in the various areas of areas of physics.
- An understanding of the methods of physicists.
- A keen interest in physics and the work of physicists.
- An appreciation of the importance of physics.
- An appreciation that physics is an active, unfinished area of work in which many people are today actively engaged.

3. Course Listing (22 Total Units):

Required Courses:

Physics G185, Calculus Based Physics: Mechanics	4 Units
Physics G280, Calculus Based Physics: Electricity and Magnetism	4 Units
Physics G285, Calculus Based Physics: Modern	4 Units
Math G180, Calculus 1	5 Units
Math G185, Calculus 2	5 Units

Required Subtotal:	22 units
Completion of GE Requirements:	21-41 units
Additional Electives (as needed to reach 60):	
Degree Total:	<u>60 units</u>