



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

2. Summary of Goals—Learning Outcomes:

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

- Developed a working knowledge of inorganic and organic chemistry, including calculations, reactions, and nomenclature.
- Developed an understanding of how chemistry is applied in other fields.
- Improved problem-solving and critical thinking skills.
- Been actively engaged in hands-on experiences in both the classroom and the laboratory.
- Interpreted experimental information, developed relationships, and correlated that experimental information with theory.
- Written quality laboratory reports, with well-developed discussions and conclusions.
- Developed confidence in their laboratory skills, operated independently during many procedures, and learned to design their own experiments.

3. Course Listing (25 Total Units):

Required Courses:

Chemistry G180 and G185, General Chemistry Sequence	10 Units
Chemistry G220 and G225, Organic Chemistry Sequence	10 Units
Math G180, Calculus	5 Units

Required Subtotal:	25 units
Completion of GE Requirements:	21-41 units
Additional Electives (as needed to reach 60)	
Degree Total:	<u>60 units</u>