

**LEWIS & CLARK COLLEGE**  
**CHEMISTRY DEPARTMENT**  
**Chemistry 100**  
**Environmental Chemistry**

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**Course Syllabus**

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**Course Description**

There are two lectures (1.5 hours) per week, and one three-hour laboratory exercise every two weeks. *The laboratory exercises and reports are an integral part of the course and failure to complete all exercises and reports will result in an incomplete grade for the course.*

The course assumes no background in chemistry and is not an introductory course for the chemistry major; it is designed for the non-science major who seeks a laboratory science course. The material focuses on the practical significance of basic chemistry in the context of societal, political, and economic issues that affect our world. Therefore, the subjects covered in this course may include, but are not limited to the following: the chemistry of the atmosphere and water, fission and fusion, energy, and new materials.

**LABORATORY SCHEDULE**

Lab #	Date	Experiment	Experiment # in Lab Manual
1	9/10 & 9/13	Check-in Preparation and Properties of Gases. Part I.	1
2	9/24 & 9/27*	Sunscreens and Sunglasses.	Handout
3	10/1 & 10/4*	Comparison of Energy Content of Fuels. An Energy Conservation Problem.	6 5
4	10/22 & 10/25	Field Trip to Tyron Creek Wastewater Treatment Plant. Wear appropriate shoes, slacks and bring raingear if rains looks likely: the treatment plant is outdoors.	
5	11/5 & 11/8	The Ubiquitous Styrofoam Cup. Classification & Identification of Common Plastics	16 9
6	11/19 & 11/22	Reactions of Acids & Common Substances. Vinegar Titration	8 9