

Murray State University
Department of Chemistry
Spring 2008

CHE 519 – 5 Credit Hours

Tentative Schedule of Experiments:

<u>Week</u>	<u>Experiment</u>
	Check-In
1	Electronic Components and Circuits 1
2	Electronics Components and Circuits 2
3	Determination of Metals in Common Breakfast Cereals by Atomic Absorption
4	Metal Composition of Multivitamins by ICP-Atomic Emission
5	Ultraviolet-Visible Analysis of Common Food Dyes
6	pH-Dependence of Luminescence by Fluorescein
7	Fibers and Paint Chips by ATR-FTIR
8	Metal Composition of Multivitamins by X-Ray Fluorescence
9	GC-MS Analysis of Blackened Meat
10	“How to Prepare Your Own ISEs”
11	Voltammetry of Ferricyanide
12	Fatty Acid Composition of Fish Oils by HPLC
13	Determination of Hydrocarbons in Gasoline by Gas Chromatography
14	“How to Build Your Own Microchip Electrophoresis System”
15	“Student Choice “

This schedule corresponds roughly to one methodology per week. All lab reports are due one week after the completion of the experiment. Details on lab reports will be provided during the first week of class.

SAFETY: Strict safety regulations will be followed during the lab period. Goggles are required at all times when in the lab. No food or drink is allowed in the lab areas. All work spaces must be cleaned when work is completed and all waste must be disposed to the proper place. Additional safety measures may be employed depending on the nature of the experiment being performed. **Failure to meet these safety requirements may result in dismissal from the lab and loss of points for the experiment.**

Lab Needs: