

**Boston College
Department of Chemistry**

Summer 2015 (June 15 to July 2)

**Course Syllabus for
General Chemistry I Laboratory
(CHEM 111101)**

Note: This is a general syllabus for reference. More specific instructions will be provided by the laboratory instructor. Information from the laboratory instructor or laboratory director takes precedence over any information in this handout.

CH 111-01 General Chemistry Lab I (1 Credit)

Course Description:

Laboratory associated with General Chemistry I (CHEM 110901). The laboratory will involve experiments designed to reinforce the lecture topics.
(Lab fee required)

Lab Instructor: Kristina Streu

Lab Director: Dr. Lynne O'Connell, Tel (617) 552-3626 (oconnell@bc.edu)
Merkert Chemistry Center, Room 111

Course Instructor: Dr. G. W. Griffin, Tel (617) 552-3260 (ggriffin@bhcc.mass.edu)
Merkert Chemistry Center, Room 202

Class times: Monday-Thursday 11:45 a.m.-2:45 p.m., Merkert 113

Required Materials: Textbook: *Laboratory Techniques for General Chemistry 2014-15*
(Notebook), Hayden McNeil Custom Publishing
ISBN 978-0-7380-6187-0

Signature Labs Series, Cengage Learning (includes CER modules indicated)

LABORATORY SCHEDULE

Date	Experiment
<u>Week 1</u>	
June 15	Check-in and Safety Training
June 16	Experiment 1. How Dense is an Egg?
June 17	Experiment 2. What Is It? Identifying an Unknown Compound
June 18	Experiment 3. Determining the Empirical Formula of Copper Chloride [CER Module STOI 386]
<u>Week 2</u>	
June 22	Experiment 4. Synthesis of Alum from Scrap Aluminum
June 23	Experiment 5. Studying Chemical Reactions
June 24	Experiment 6. Spectrophotometric Determination of Iron in a Vitamin Tablet
June 25	Experiment 7. Titration of an Antacid
<u>Week 3</u>	
June 29	Experiment 8. Determining the Composition of an Aqueous Hydrogen Peroxide Solution [CER Module ANAL 378]
June 30	Experiment 9. Enthalpy of Formation of Magnesium Oxide
July 1	Experiment 11. Atomic Emission Spectroscopy and Check-out [CER Module STRC 449]
July 2	No Laboratory Session

Note: You must have passed the safety quiz with a grade of 90 or better before you will be allowed to work in the laboratory.

The grading policy and the experiments are available at the following web site:

www.bc.edu/schools/cas/chemistry/undergrad/labcourses.html