Summary
Introduction to the chemistry of the s & p elements of the periodic table.

Content
The course will be a "walk" through the periodic table with focus on the main group elements. This includes a brief history of the respective element, a description of the most important compounds (syntheses, structures, physical properties and reactivities) and a discussion of trends within the different groups.

Learning Outcomes
By the end of the course, the student must be able to:
• Recall general trends in the periodic table of elements.
• Recall methods for the synthesis of the s & p block elements.
• Recall the structures, the properties, applications, and the chemical reactivity of the s & p block elements.
• Differentiate the different allotropes of the s & p block elements.
• Derive the structure of compounds of the s & p block elements.
• Derive equations for reactions of compounds of the s & p block elements.
• Recall relevant oxidation states for the s & p block elements.

Assessment methods
Written exam

Resources
Ressources en bibliothèque
• Inorganic Chemistry / Shriver
• Anorganische Chemie / Riedel
• Nature's Building Blocks / Emsley
• Elements of the p Block / Shriver

Websites
• http://scgc.epfl.ch/telechargement_cours_chimie