CH-221 Chemistry of elements s and p

Severin Kay				
Cursus	Sem.	Туре	Language of	English
Chemistry and chemical engineering	BA3	Obl.	teaching	Linglish
HES - CGC	Н	Obl.	Credits Session	2 Winter
			Semester Exam Workload Weeks	Fall Written 60h 14
			Hours Courses Number of positions	2 weekly 2 weekly

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

