

# CH-221 Chemistry of elements s and p

Severin Kay		
	Sem.	Тур

Cursus	Sem.	Type
Chemistry and chemical engineering	BA3	Obl.

Language of English teaching Credits Winter Session Semester Fall Exam Written Workload 60h Weeks 14 2 weekly Hours 2 weekly Courses Number of positions

## **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