

# Chemistry1

Syllabus Number 3F141  
Basic Major Subjects  
Elective 2 credit  
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## 1. Course Description

The aim of this course is to help students acquire an understanding of the fundamental principles of chemistry.

## 2. Course Objectives

The goals of this course are to obtain basic knowledge about the chemistry.

## 3. Grading Policy

Your final grade will be calculated according to the following ratio: Mid-term report (20%), term-end examination (80%), and a fraction of in-class contribution.

## 4. Textbook and Reference

Textbook

Handouts are distributed every time.

## 5. Requirements(Assignments)

## 6. Note

## 7. Schedule

- |      |   |
|------|---|
| [1]  | Classification of the material  |
| [2]  | Atom and molecule-Structure of atom   |
| [3]  | Atom and molecule-molecule and ion  |
| [4]  | Electron configuration-atom   |
| [5]  | Electron configuration-orbital  |
| [6]  | Electron configuration-hybrid orbital                                       |
| [7]  | Element and periodic table-periodic law                                     |
| [8]  | Element and periodic table-typical element                                  |
| [9]  | Element and periodic table-transition element                               |
| [10] | Chemical bond-ionic bond  |
| [11] | Chemical bond-covalent bond   |
| [12] | Chemical bond-metallic bond   |
| [13] | Amount of substance and chemical formula-atomic weight and molecular weight |
| [14] | Amount of substance and chemical formula-reaction formula                   |
| [15] | Term-end examination  |