


5.00 credits

30.0 h + 60.0 h

Q2

|                             |   |
|-----------------------------|---|
| Teacher(s)                  | Dupont Christine (coordinator) ;Ghislain Michel ;Huybrechts Thibaut (compensates Dupont Christine) ;  |
| Language :                  | French  |
| Place of the course         | Louvain-la-Neuve  |
| Learning outcomes           |   |
| Evaluation methods          | <p>Grades are given throughout the semester (individual and group reports).</p> <p>Part A: individual work or by groups of 2 students - homework and tests - 60% of final grade</p> <p>Part B: work by groups of 5 to 7 students - oral presentation of the project and submission of the related calculation file - 40% of final grade</p> <p>No exam neither in June nor in August.</p> <p>Note that individual penalties are applied in case of absence to the practical sessions or to any other compulsory activity, as extensively advertised during the course and on the Moodle platform of the course.</p> |
| Teaching methods            | <p>Resolution of problems through the modeling of chemical equilibria. Individual work in the beginning of the semester, work by groups of two students in the middle of the semester, then in groups of 6 students at the end of the semester.</p> <p>In reason of the limited number of places in classrooms this year (COVID-19 crisis), some of these activities may be carried out remotely.</p>   |
| Content                     | <p>Lectures: disciplinary (solubility and complexation equilibria) and transversal (project management, modeling and communication) skills</p> <p>Practicals: Use of spreadsheets to (i) solve - individually then by two students - problems related to the prediction of chemical equilibria, (ii) carry on a project by groups of 6 students, around a question linked to daily life and resting on chemical equilibria. The outcome of this project is presented orally to the other students.</p>  |
| Inline resources            | See the Moodle platform of the course   |
| Faculty or entity in charge | AGRO  |

| <b>Programmes containing this learning unit (UE)</b> |         |         |              |   |
|--|---------|---------|--------------|---|
| Program title  | Acronym | Credits | Prerequisite | Learning outcomes   |
| Bachelor in Bioengineering                           | BIR1BA  | 5       |              |  |