





2.00 credits

18.5 h

Q1


This learning unit is not open to incoming exchange students!

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|-----------------------------|---|
| Teacher(s) | De Kesel Myriam ; |
| Language : | French |
| Place of the course | Louvain-la-Neuve |
| Prerequisites | <ul style="list-style-type: none"> • LSCI2320 must have been taken in Q1 (S1 to S4). • The knowledge of the discipline(s) to be taught, i.e., the knowledge of biology related to the 2nd grades of secondary education in general sciences. • Clear and correct communication in the language of instruction both orally and in writing. • The interpersonal skills and professional postures normally expected of a teacher. |
| Main themes | <ol style="list-style-type: none"> 1. Didactic specificities of a teaching sequence in biology at the 2nd level (D2) and the 3rd level (D3) 2. Experimentation, the scientific approach and the investigative approach in D2 and D3 3. Problematization and modeling in D2 and D3 4. The importance of epistemology; the major epistemological currents 5. Epistemological, critical, orienting, interdisciplinary and creative approaches 6. Assessment 7. Difficult concepts to teach in biology at D2 and D3 |
| Learning outcomes | |
| Evaluation methods | <p>Students enrolled in the geography or mathematics aggregation, only in module LBIO2340 C, are evaluated in January as follows:</p> <p>Biology laboratory activities: 20% of the total grade</p> <p>Written test (November) regarding the basic concepts to be taught in D2 Biology: 10% of the total grade</p> <p>10-hour observation internship report in biology: 30% of the total grade</p> <p>Individual written evaluation (January) concerning the concepts covered in didactics and epistemology of biology: 40% of the total grade</p> <p>Attendance to this course is required. In accordance with article 72 of the General Regulations for Studies and Examinations, the course instructor may propose to the jury that a student who has not attended at least 80% of the courses during the January or September session be refused registration.</p> |
| Teaching methods | The teaching activities are those recommended in secondary education: group work, lectures, flipped classes, laboratories... mainly in co-construction with the students. |
| Content | This teaching unit consists in "equipping" students to become future biology teachers at D2. The aim is not only to present the elements of didactics related to the teaching of biology but also to ensure the transfer and appropriation of these tools by future teachers. |
| Inline resources | <p>on MoodleUCL, acronym LBIO2340.</p> <p>The site contains the documents presented and used during the courses and allows the deposit of the students' productions.</p> |
| Bibliography | Des ouvrages en relation avec les disciplines enseignées et avec la didactique seront présentés lors des cours. |
| Other infos | <p>LBIO2340 C is an elective course for students enrolled in the geography or mathematics associate degree programs. It can only be taken if LSCI2320 has been previously taken.</p> <p>LBIO2340 C is taken in Q1 during S8 to 14 for 2 hours per week (15 hours equivalent to 2 credits).</p> |
| Faculty or entity in charge | CAFC |

| Programmes containing this learning unit (UE) | | | | |
|--|---------|---------|--------------|---|
| Program title | Acronym | Credits | Prerequisite | Learning outcomes |
| Teacher Training Certificate (upper secondary education) - Mathematics | MATH2A | 2 | |  |
| Teacher Training Certificate (upper secondary education) - Geography | GEO2A | 2 | |  |
| Master [120] in Mathematics | MATH2M | 2 | |  |
| Master [120] in Geography : General | GEOG2M | 2 | |  |