




2.00 credits

19.0 h

Q2


This learning unit is not open to incoming exchange students!

Teacher(s)	De Kesel Myriam ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	<ul style="list-style-type: none"> • LSCI2320 in Q1 (S1 to S4) and LBIO2340C in Q1 (S5 to S13) must have been taken • The knowledge of the discipline(s) to be taught, i.e., the knowledge of biology related to the 3rd 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 3rd level (D3) 2. Experimentation, the scientific approach and the investigative approach in D3 3. Problematization and modeling in 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 D3
Learning outcomes	
Evaluation methods	<p>Students enrolled only in LBIO2340 D, are evaluated as follows:</p> <p>Written test (February) concerning the basic concepts to be taught in D3 Biology: 20% of the total grade</p> <p>Activities related to biology laboratories: 20% of the total grade</p> <p>Individual or paired oral evaluation (June) concerning the transfer of concepts in didactics and epistemology of biology (design and presentation of a learning sequence in biology at D3 and a personal reflective work): 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, June 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 D3. 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 D is an elective didactics course for students enrolled in the Geography or Mathematics associate degree programs. It can only be taken if LSCI2320 and LBIO2340 C have been taken previously.</p> <p>LBIO2340 D is taken in Q2 for 2 hours per week (22.5 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		