UCLouvain

lbio1281

2023

Integrated work in biology

3.00 credits	10.0 h + 35.0 h	Q2

Teacher(s)	Chaumont François ;Desguin Benoît ;Gofflot Françoise ;Hachez Charles ;Hance Thierry (coordinator) ;Lejeune André ;Rees Jean-François ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	Students will be assigned to a team responsible for exploring a broad scientific issue, at the crossroads of the disciplines included in their biology curriculum (ecology, physiology, genetics, biochemistry, etc.) and possibly other disciplines (economics, ethics, law, society, etc.). Each team will approach the problem by formulating questions, and after training in documentary research, will research scientific documents to explore current scientific knowledge on their topic. By reading and critically analyzing these documents, they will be able to provide answers to their questions. At the end of this work, each team will write a journal article on its scientific issue (Type Trends in…).
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 The activity has several objectives. 1. Formulate pertinent questions on a given theme. 2. Learn to use online documentary research tools effectively. 3. Analyze the scientific information available on a subject, and critically assess the validity of this information. 4. Acquire new knowledge to deal with a subject 5. Integrate scientific knowledge on an interdisciplinary subject 6. Present scientific content effectively in writing 7. Learn to work in teams
Evaluation methods	Students submit a first written version of their work before the Easter holidays. A second version is submitted at the end of the term. A second draft is submitted at the end of the term, which is assessed in the form of a certificate for each group. Students are asked to evaluate themselves and the other members of their group. This assessment is used to create an individual mark by modulating the mark given to the group.
Teaching methods	Accompanied by a tutor they will meet each week, the participants will work as a team. Some training will be provided in computer rooms (text / documentary research).
Content	Each participant will be associated with a team in charge of exploring a broad scientific question, at the crossroads of the disciplines appearing in its curriculum (animal biology, plant, ecology, chemistry ..). Each team will formulate hypotheses, and after training in documentary research, will carry out document searches to validate / invalidate the validity of these hypotheses. Once the hypotheses are validated, the students will then explore the current scientific knowledge underlying each hypothesis. Regular interviews with one of the incumbents will allow the team to compare their work to the objectives. Exercises of critical analysis of a scientific question, as well as of written and oral presentation will be organized.
Faculty or entity in charge	BIOL

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Additionnal module in Biology	APPBIOL	3		🔍
Minor in Biology	MINBIOL	3		🔍