UCLouvain

lbio1281

2026

Integrated work in biology

3.00 credits	20.0 h + 35.0 h	Q2

Teacher(s)	Evens Ruben ;Hachez Charles ;Rees Jean-François ;Renoz 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	The course is organized into successive modules with continuous assessment. Attendance and active participation in all modules are mandatory. Any unjustified absence will result in a penalty deducted from the final grade at a rate of 2 points out of 20 per absence. These penalties are definitive, and the grades obtained through continuous assessment are considered binding for each examination session of the academic year. In addition, students are required to conduct self-assessment and to evaluate the other members of their group. This self-assessment may be used to establish an individual grade by adjusting the group grade. Failure to participate in the self-assessments will result in a penalty of 5 points deducted from the final grade.
Teaching methods	Accompanied by a tutor with whom they will meet on a regular basis, participants will work in teams. Some training could be organised in computer rooms (text/document search) according to the schedule communicated during the first course.
Content	Students will work as a team tasked with 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.). In addition to group work, training is provided for all students. • training in documentary research • training in bibliographic management tools • training in the correct use of Word software • training in reading and writing journal articles • training in the correct use of new tools (e.g. generative AI; Scientific Image and Illustration Software)
Other infos	Since attendance and active participation in all modules are mandatory, it is essential to ensure that there are no scheduling conflicts with other activities that would prevent participation in the course sessions.
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		🔍