

COURSE DETAIL

METHODOLOGY IN RESEARCH ARTICLES

Country

France

Host Institution

University of Bordeaux

Program(s)

University of Bordeaux

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Mathematics Computer Science Biological Sciences

UCEAP Course Number

150

UCEAP Course Suffix**UCEAP Official Title**

METHODOLOGY IN RESEARCH ARTICLES

UCEAP Transcript Title

METHODOLGY RESEARCH

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This is an interdisciplinary, project-based course designed to introduce the principles, methods, and communication practices of modern scientific research. Through a flipped-classroom approach, the course actively explores how different disciplines—such as biology, informatics, mathematics, physics, chemistry, and computer science—intersect to address complex scientific questions. Throughout the course, students work in small subgroups to build and communicate a scientific project. They learn how to identify and evaluate scientific literature, analyze research methodologies across fields, and critically assess the validity, reproducibility, and interpretation of results. Students develop strong skills in teamwork, scientific reasoning, and oral communication as they prepare an interdisciplinary presentation aimed at both specialists and non-specialists. A major component of the course is the construction of a final oral presentation based on recent scientific publications. Students progressively refine their project through guided tutorials led by instructors from multiple disciplines. They also practice writing concise research abstracts, critically reading scientific articles, and using research tools such as PubMed and AI-assisted platforms—while assessing their benefits and limitations. By the end of the course, students gain practical experience in the entire scientific communication pipeline: exploring a topic, building a multidisciplinary understanding of its methods, and presenting their findings clearly and rigorously to a diverse scientific audience.

Language(s) of Instruction

English

Host Institution Course Number

4TTV429U

Host Institution Course Title

METHODOLOGY IN RESEARCH ARTICLES

Host Institution Course Details

<https://formations.u-bordeaux.fr/details-formation?type=enseignement&id=74523>

Host Institution Campus

Université de Bordeaux

Host Institution Faculty

Sciences, Technologies, Santé

Host Institution Degree

Licence

Host Institution Department

Sciences de la vie

Course Last Reviewed

2025-2026

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