



# UE4 Palaeontology and Biodiversity dynamics (in English)



Niveau d'étude  
BAC +5



ECTS  
1,5 crédits



Composante  
UFR Sciences  
Vie Terre  
Environnement

## Présentation

### Description

Current research in evolutionary palaeontology and biomineralization stands at the crossroad of various disciplines ranging from palaeontology, evolutionary biology, macroecology, biogeography, morphometry and microbiology. The concepts and methods of these scientific fields complement each other and lead to an integrated understanding of biodiversity as preserved in the fossil record. This teaching unit tackles biodiversity dynamics at multiple scales, ranging from the local preservation of fossil individuals to the distribution of life on the planet. It also includes scientific seminars and a reinforcement in scientific English.

TD intégré

Analysis of fossil community structures

Integrated study of morphological evolution

Climate-(palaeo)Biodiversity interaction models and niche models

Macroecology

Biomineralization and fossilization

Scientific seminars

### Objectifs

To be able to manipulate fundamental concepts of palaeontology, evolutionary biology and biomineralization.

To understand the conceptual and analytical links among these disciplines.

To apply current knowledge in palaeontology, evolutionary biology and biomineralization



to real cases in order to understand the multi-scale dynamics of biodiversity and its history.

To know how to analyse, interpret et communicate scientific data in English.

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## Heures d'enseignement

TD	Travaux Dirigés	50h
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## Pré-requis obligatoires

M1STPE or equivalent Master degrees

## Infos pratiques

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### Campus

➤ [Campus de Dijon](#)