



# UE5 Applied sedimentology and Georesources (in English and French)



Niveau d'étude  
BAC +5



ECTS  
6 crédits



Composante  
UFR Sciences  
Vie Terre  
Environnement

## Présentation

### Description

Visualization of sedimentary bodies in space and time is essential to draw basin architecture and reconstruct spatialized sedimentary depositional system. At the regional scale such reconstruction strongly relies on seismic geomorphology and wells correlation within the framework of sequential stratigraphy concepts. A number of informatic tool and software, of industrial use, became prevalent in this field of applied Geosciences and many applications, such as reservoir characterization, are advance using stratigraphic modeling. This teaching unit aims notably at manipulating such software using various example of reservoir geology and georesources applications.

- 2D/3D Seismic geomorphology (Total Corporate Software – Sismage®)
- Stratigraphic modeling (Beicip-Franlab and IFP Energies Nouvelles - DionisosFlow® software)
- reservoir geology and georesources

### Objectifs

Applying the concepts of sequential stratigraphy and wells correlation in order to reconstruct depositional environments and basinal architecture evolution through time.

Knowing how to operate DionisosFlow® software.

Knowing how to interpret results from DionisosFlow® & Sismage® software.

Acquiring an integrative understanding of basin sedimentology from field observations (UE1S5) to modeling and simulation.



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## Heures d'enseignement

TD Travaux Dirigés 30h

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## Pré-requis obligatoires

M1STPE or equivalent Master 1 degree

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## Modalités de contrôle des connaissances

### Évaluation initiale / Session principale - Épreuves

Type d'évaluation	Nature de l'épreuve	Durée (en minutes)	Nombre d'épreuves	Coefficient de l'épreuve	Note éliminatoire de l'épreuve	Remarques
CT (contrôle terminal)	Ecrit sur table			1.5		

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### Seconde chance / Session de rattrapage - Épreuves

Type d'évaluation	Nature de l'épreuve	Durée (en minutes)	Nombre d'épreuves	Coefficient de l'épreuve	Note éliminatoire de l'épreuve	Remarques
CT (contrôle terminal)	Ecrit sur table			1.5		

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## Infos pratiques

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### Campus

➤ Campus de Dijon