

# Master Sciences de la Terre et des planètes, environnement (ST201) Earth Surface Dynamics

Responsable	Descriptions	Informations
Vincent GODARD vincent.godard@univ-amu.fr	Code : LSTBU11 Nature : Unité d'enseignement Domaines : Sciences et Technologies	Composante : Observatoire des Sciences de l'Univers - Pythéas (OSU)

## LANGUE(S) D'ENSEIGNEMENT

Anglais

## CONTENU

General introduction, long-wavelength geomorphology - Tectonic Geomorphology - Glaciers and glacial geomorphology - Hillslope dynamics - General hydrology - Fluvial geomorphology - Fluvial incision processes

## COMPÉTENCES À ACQUÉRIR

- 1.1 Building and structuring a cultural background in Earth sciences
- 1.5 Use the tools of geology, biology, mathematics, chemistry, physics, statistics and computer science to solve Earth science problems
- 2.1 Formulate scientific questions and/or develop them based on knowledge of Earth sciences or observation of geological objects
- 2.5 Analyze, interpret, synthesize and model information or geological data for use in Earth sciences
- 3.2 Reading and extracting information from documentary sources in English for use in earth sciences
- 4.3 Careful and accurate reporting of earth science work

## BIBLIOGRAPHIE, LECTURES RECOMMANDÉES

The general organization and philosophy of the course is based on that of the reference textbook by Anderson & Anderson. Geomorphology: the Mechanics and Chemistry of Landscapes (Cambridge), which can be consulted at University Library. Read the introduction (first 14 pages).

The Little book of Geomorphology is a free download text illustrating the application of the conservation principle to geomorphological processes. Read the introduction (first 10 pages).

[https://instaar.colorado.edu/uploads/people/182/The\\_little\\_book\\_010708\\_print.pdf](https://instaar.colorado.edu/uploads/people/182/The_little_book_010708_print.pdf)

## PRÉ-REQUIS OBLIGATOIRES

Bachelor-level concepts in geomorphology

## VOLUME HORAIRE

- Volume total: 40 heures
- Cours magistraux: 15 heures
- Travaux dirigés: 25 heures

## CODES APOGÉE

- LSTBU12 [ELP]
- LSTBU12A [ELP]

## M3C

Aucune donnée M3C trouvée

## POUR PLUS D'INFORMATIONS

[Aller sur le site de l'offre de formation...](#)



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