

## Master Sciences de la Terre et des planètes, environnement (ST205) Geosciences data processing

### Informations

Composante : Observatoire des Sciences de l'Univers - Pythéas (OSU)

### Responsables

Vincent GODARD  
Sophie VISEUR

### Langue(s) d'enseignement

Anglais

### Contenu

The unit is organized around three main themes  
Geostatistics  
Time series analysis and introduction to signal processing  
Inversion methods and optimization  
An in-depth session on the R language, already covered in the first semester, is included.

### Compétences à acquérir

1.5 Use the tools of geology, biology, mathematics, chemistry, physics, statistics and computer science to solve Earth science problems  
2.5 Analyze, interpret, synthesize and model information or geological data for use in Earth sciences  
2.6 Use software to map and visualize measurements or experimental data in the earth sciences  
2.8 Confront data critically with existing knowledge and develop a scientific argument in Earth sciences  
2.9 Be aware of the uncertainty and validity of an experimental or numerical result in Earth sciences  
4.5 Develop autonomy to plan Earth science work and respond to time constraints

### Bibliographie, lectures recommandées

Additional resources :

<https://raw.githubusercontent.com/rstudio/cheatsheets/master/base-r.pdf>

[https://fr.overleaf.com/learn/latex/Learn\\_LaTeX\\_in\\_30\\_minutes](https://fr.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes)

### Pré-requis obligatoires

Basics of data analysis and statistics, knowledge of R and Rstudio (first semester TC1 teaching unit).

### Prérequis recommandés

Additional resources :

<https://raw.githubusercontent.com/rstudio/cheatsheets/master/base-r.pdf>

[https://fr.overleaf.com/learn/latex/Learn\\_LaTeX\\_in\\_30\\_minutes](https://fr.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes)

### VOLUME HORAIRE

- Volume total: 30 heures
- Travaux dirigés: 30 heures

### Codes Apogée

- LSTBU16 [ELP]
- LSTBU16A [ELP]

### Pour plus d'informations

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



Dernière modification le 10/06/2024