



MSc ENVIRONMENTAL SCIENCES PROGRAMME COASTAL GEOSCIENCES AND GEOPHYSICS

IDENTITY CARD

- > Domain : Sciences, Technologies and Health
- > Full time course
- > [Continuing Education](#)
- > [Master of Engineering](#)
- > [120 ECTS credits](#)
- > 4 semesters
- > Course partly taught in English
- > La Rochelle

100 % of graduates are employed
according to a study conducted 18 months after graduation

REGISTRATION

<https://www.univ-larochelle.fr/formation/admission-inscription-et-scolarite/candidatures-et-inscriptions/candidater-universite-la-rochelle/>

CONTACT

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OBJECTIVES

> Presentation

“ Do you have a background in sciences (mathematics, physics or earth sciences) and a sensitivity for the coast ?
The Master's degree in Environmental Sciences teaches you to understand complex research or social issues related to the integrated management of natural and coastal areas in particular.

The Coastal Geosciences and Geophysics (GGL) course provides you with fundamental theoretical and practical skills in terrestrial and marine geophysics, geodesy, marine geology and coastal oceanography.
You will be trained in the deployment of geophysical instruments on land and at sea, data acquisition, scientific calculation, modelling and digital data processing to provide answers to a problem in the coastal physical environment.

This course trains you to a rigorous reasoning, based on a state of current knowledge about the coastline. You will be able to carry out an interdisciplinary reflection, establish a diagnosis and propose and/or simulate possible evolutions in order to meet societal demands in the coastal domain.



Eric Chaumillon

✓ ADMISSION

> Your profile

You have a Bac+3, Bac+4 or equivalent (minimum 180 ECTS) : you must have completed a course in geosciences, physical sciences or applied mathematics.

> How to apply ?

In the 1st year of the Master's degree, the selection of candidates is made on the basis of their application documents.

How to apply to the [1st year of the Master's](#)

How to apply to the [2nd year of the Master's](#)

📄 PROGRAMME

● Mandatory ■ Course option

> Semester 1

> Coastal hydrodynamics & morphodynamics ●

- Coastal hydrodynamics & morphodynamics

> Data analysis for geosciences 1 ●

- Python / Signal processing / Geographical Information System

> Instrumentation in Geophysics 1 ●

- Marine geology and oceanography

> Mineure : Ecologie et Gestion des espèces Marines Mobiles ■

- EGEMM 1

> Mineure : Environmental Data to information (edition) ■

- The environment in a computer : examples & projects

> Mineure : Géomatique ■

- Géomatique

> Mineure : Gouvernance et concertation ■

- Gouvernance du développement durable
- Participation citoyenne et transition écologique

> Unités transversales ●

- Communication scientifique et technique
- LV1 Anglais

> Semester 2

> Coastal sedimentology, geomorphology, stratigraphy and solid Earth deformation ●

- Coastal sedimentology, geomorphology and stratigraphy
- Earth's surface deformation & coastal impacts

> Data analysis for geosciences 2 ●

- Data analysis for geosciences 2

> Instrumentation in geophysics 2 ●

- Instrumentation in geophysics 2

> **Stage** •

- Stage (6 semaines)

> **Mineure : Ecologie et Gestion des espèces Marines Mobiles** ■

- EGEMM 2

> **Mineure : Environmental Data to information (edition)** ■

- From data to information

> **Mineure : Géomatique** ■

- Méthodes d'analyse spatiale
- Télédétection et imagerie spatiale

> **Mineure : Gouvernance et concertation** ■

- Management des équipes et gestion de conflit
- Méthodes de concertation
- Préparer, animer, rendre compte d'un évènement participatif

> **Unités transversales** •

- Changements globaux : enjeux environnementaux et sociétaux
- LV1 Anglais

> **Semester 3**

> **Instrumentation in Geophysics 3** •

- Instrumentation in geophysics 3

> **Modelling in hydrodynamics & morphodynamics** •

- Modelling in hydrodynamics & morphodynamics

> **Sea level variations, extremes & coastal risks** •

- Sea level variations, extremes & coastal risks

> **Mineure : Ecologie et Gestion des espèces Marines Mobiles** ■

- EGEMM 3

> **Mineure : Environmental Data to information (edition)** ■

- Geospatial and web development

> **Mineure : Géomatique** ■

- MNT
- Teledetection avancée

> **Mineure : Gouvernance et concertation** ■

- Management de projet de développement durable
- Retour d'expériences et évaluation de projet de développement durable

> **Unités transversales** •

- Droit de l'environnement et du littoral
- LV1 Anglais
- Socio-écosystèmes

> **Semester 4**

> **Unités transversales** •

- Stage (26 semaines)

 **AFTERWARDS**

Information subject to change

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