

## Paleobiology of Micro-organisms (C002779)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size (nominal values; actual values may depend on programme)  
Credits 5.0 Study time 140 h Contact hrs 50.0 h

### Course offerings and teaching methods in academic year 2020-2021

A (semester 1)	English	Gent	lecture	20.0 h
			practicum	30.0 h

### Lecturers in academic year 2020-2021

Louwye, Stephen	WE13	lecturer-in-charge
Wong Hearing, Thomas	WE13	co-lecturer

### Offered in the following programmes in 2020-2021

	crdts	offering
<a href="#">Master of Science in Teaching in Science and Technology (main subject Biology)</a>	5	A
<a href="#">Master of Science in Biology</a>	5	A
<a href="#">Exchange Programme in Biology (master's level)</a>	5	A

### Teaching languages

English

### Keywords

Palaeobiology, fossil micro-organisms, morphology, evolution, palaeoenvironment, palaeogeography, dating

### Position of the course

Knowledge and insight of the most important groups of fossil micro-organisms and their evolution since the Precambrian. Their use to date sedimentary rocks and as proxies for the reconstruction of the palaeoenvironment, palaeogeography and palaeoclimate.

### Contents

The palaeobiology of fossil microorganism over Earth's history: morphology and general characteristics, life strategies, palaeoproductivity, fossilisation and taphonomy, diversity and palaeogeography, evolution, radiation, and extinctions. Fossil micro-organisms as proxies for the palaeo-environment: principles and case studies.

### Initial competences

knowledge of phycology and protistology

### Final competences

- 1 In-depth knowledge of the fossil micro-organisms group discussed and the criteria for determination.
- 2 Possess a fundamental insight in the evolution of micro-organisms during the Phanerozoic.
- 3 Apply the insight for the reconstruction of the paleo-environment, the paleogeography and the paleoclimate.

### Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

### Conditions for exam contract

This course unit cannot be taken via an exam contract

### Teaching methods

Lecture, practicum

Learning materials and price

Microfossils. H.A. Armstrong & M.D. Brasier, Blackwell Publishing, ISBN 0-632-05279-1. Cost: approx. 40 euro

References

Microfossils. H.A. Armstrong & M.D. Brasier, Blackwell Publishing, ISBN 0-632-05279-1

Course content-related study coaching

Possibility to ask questions about the oral teaching classes by email, via personal contact and during the practical exercises. Guidance during practical exercises by teachers and assistants.

Evaluation methods

end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Written examination with open questions, assignment

Examination methods in case of periodic evaluation during the second examination period

Written examination with open questions, assignment

Examination methods in case of permanent evaluation

Assignment

Possibilities of retake in case of permanent evaluation

examination during the second examination period is not possible

Extra information on the examination methods

Written with oral defence

Workpiece: notes taken during practicals

Form and contents of the examination are explained at the end of the course. A test evaluates whether students have internalized the final objectives.

Calculation of the examination mark

permanent evaluation 10%, periodic evaluation 90%