

## Paleobiology of Micro-organisms (C001584)

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

<b>Course size</b>	<i>(nominal values; actual values may depend on programme)</i>			
<b>Credits</b> 5.0	<b>Study time</b> 140 h	<b>Contact hrs</b>	50.0h	
<b>Course offerings and teaching methods in academic year 2021-2022</b>				
A (semester 1)	English	Gent	practicum	30.0h
			lecture	20.0h
<b>Lecturers in academic year 2021-2022</b>				
Louwey, Stephen		WE13	lecturer-in-charge	
Wong Hearing, Thomas		WE13	co-lecturer	
<b>Offered in the following programmes in 2021-2022</b>			<b>crdts</b>	<b>offering</b>
<a href="#">Master of Science in Marine and Lacustrine Science and Management</a>			6	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 over Earth's history. Their use as proxies for the reconstruction of the palaeoenvironment, palaeogeography and palaeoclimate.

### Contents

The palaeobiology of fossil microorganisms 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 Advanced knowledge of the discussed fossil microorganisms and their identification criteria.
- 2 To possess a fundamental insight in their evolution during the Phanerozoic.
- 3 Apply this knowledge to determine palaeoenvironmental parameters and to reconstruct the palaeogeography and palaeoclimatology.

### 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

Practicum, Lecture

### Learning materials and price

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

### References

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**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.

**Assessment moments**

end-of-term and continuous assessment

**Examination methods in case of periodic assessment during the first examination period**

Written examination with open questions, Assignment

**Examination methods in case of periodic assessment during the second examination period**

Written examination with open questions, Assignment

**Examination methods in case of permanent assessment**

Assignment

**Possibilities of retake in case of permanent assessment**

examination during the second examination period is not possible

**Extra information on the examination methods**

Written (theory) and report (practical exercises)

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**

Work piece 25%, written exam 75%