

# Course Specifications

Valid as from the academic year 2023-2024

# Paleobiology of Micro-organisms (C001584)

Course size (nominal values; actual values may depend on programme)

Credits 5.0 Study time 140 h

Course offerings in academic year 2023-2024

Lecturers in academic year 2023-2024

Louwye, StephenWE13lecturer-in-chargeWong Hearing, ThomasWE13co-lecturer

Offered in the following programmes in 2023-2024 crdts offering

#### 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 knowlegde 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

Lecture, Practical

#### 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

(Approved) 1

Possibility to ask questions about the oral teaching classes by email, via personal contact and during the practical excercises. Guidance during practical excercises 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 assessment with open-ended questions, Assignment

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

Written assessment with open-ended 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%

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