

## Microbiology for Resource Scientists: Lab Course (I002847)

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** 3.0      **Study time** 75 h      **Contact hrs** 75.0 h

### Course offerings in academic year 2022-2023

A (year)      English      Gent

### Lecturers in academic year 2022-2023

Schlöhmann, Michael      FREIBE01      lecturer-in-charge  
Kaschabek, Stefan      FREIBE01      co-lecturer

### Offered in the following programmes in 2022-2023

	crdts	offering
<a href="#">International Master of Science in Sustainable and Innovative Natural Resource Management</a>	3	A

### Teaching languages

English

### Keywords

### Position of the course

### Contents

Working sterile; preparation of minimal and complex media; pouring of plates; enrichment, isolation and identification of microorganisms. Experiments on various metabolic properties of microorganisms (e.g. leaching of sulfides). Turbidity measurement, HPLC analyses, colorimetric determination of ions in solution.

### Initial competences

Mandatory: Microbiology for Resource Scientists: Lecture, 2018-07-03 oder (or)"Grundlagen der Biochemie und Mikrobiologie" oder (or) equivalent Recommendations: Knowledge in general, inorganic and organic chemistry.

### Final competences

The students will have obtained experience in basic microbiological methods. They are able to prepare sterile media, to cultivate microorganisms and to enrich as well as isolate pure cultures. They are able to follow the growth of cultures and to analyse substrate conversion and product formation during cultivation.

### Conditions for credit contract

This course unit cannot be taken via a credit contract

### Conditions for exam contract

This course unit cannot be taken via an exam contract

### Teaching methods

### Extra information on the teaching methods

S1 (WS): Practical Application (5 SWS)

### Learning materials and price

### References

**Course content-related study coaching**

**Evaluation methods**

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

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

**Examination methods in case of permanent evaluation**

**Possibilities of retake in case of permanent evaluation**

examination during the second examination period is possible

**Calculation of the examination mark**