

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 2020-2021

A (semester 1) English Gent

Lecturers in academic year 2020-2021

Schlöhmman, Michael

FREIBE lecturer-in-charge

Offered in the following programmes in 2020-2021

crdts offering

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

Strete: Mikrobiologisches Grundpraktikum Steinbüchel & Oppermann-Sanio: Mikrobiologisches Praktikum

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