mar530 - Main Module Ecophysiology of anaerobes

**Module label**
Main Module Ecophysiology of anaerobes

**Module code**
mar530

**Credit points**
12.0 KP

**Workload**
360 h

**Used in course of study**
- Master's Programme Microbiology > Mastermodule

**Contact person**
Module responsibility
- Bert Engelen

**Authorized examiners**
Alle hier genannten

**Entry requirements**
Lecture: Microbial Physiology and Diversity, recommended: Sediment Microbiology

**Skills to be acquired in this module**
The students can contribute to current scientific projects (under guidance). They know modern analytical techniques. They know and understand recent scientific literature. They can write scientific reports, present their results and discuss them in the public.

**Module contents**
"Ecophysiology of prokaryotes": Projects derived from current scientific programs are carried out, typically in groups of two students guided by a senior scientist or PhD student. Typical project deal with:
- Anaerobic processes
- Molecular analysis of microbial communities
- Sediment microbiology
- Physiological experiments and activity measurements
- Impact of viruses
- Microscopic analysis of chemotaxis

In the accompanying seminar, recent scientific studies in international journals are presented by the students. The results are summarized and discussed in a protocol fulfilling scientific level requirements.

**Reader's advisory**
will be announced

**Links**

**Language of instruction**
English

**Duration (semesters)**
1 Semester

**Module frequency**
jährlich

**Module capacity**
unlimited

**Reference text**
12 CP | SE; PR | 1. FS | Cyphonka

**Modulart**
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**Lern-/Lehrform / Type of program**
Seminar (2 CP ), practical course (10 CP)

Block course, 4 weeks, seminar and laboratory work

**Vorkenntnisse / Previous knowledge**

**Examination**

**Final exam of module**
Time of examination
Announced during the course.

Type of examination
One assessments of examination:

Portfolio: Written protocol and contribution to the seminar (seminar presentation)

Seminar presentation (no mark), written protocol (100%)

Active participation (Active and documented participation in practical courses (labs, exercises, seminars, field trips) and courses. These include e.g. the delivery of exercises, writing a lab report or seminar presentations according to the advice or the course supervisor.)

**Course type**

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<th>Frequency</th>
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