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:
- Heribert Cypionka
- Bert Engelen

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 | Cypionka
Modullevel: MM (Mastermodul)

Lern-Lehrform / Type of program:
Seminar (2 CP ), practical course (10 CP)
Block course, 4 weeks, seminar and laboratory work

Vorkenntnisse / Previous knowledge:

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<thead>
<tr>
<th>Examination</th>
<th>Time of examination</th>
<th>Type of examination</th>
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<tbody>
<tr>
<td>Final exam of module</td>
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<td>One assessments of examination:</td>
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<td>Portfolio: Written protocol and contribution to the seminar (seminar presentation)</td>
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<td>Seminar presentation (no mark), written protocol (100%)</td>
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<td>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.)</td>
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Course type:
- Seminar: 2.00 SWS
- Practical: 8.00 SWS

Frequency:
- Seminar: 28 h
- Practical: 112 h

Workload attendance:
- 140 h