mar540 - Main Module Ecology of Marine Microbial communities

Module label: Main Module Ecology of Marine Microbial communities
Module code: mar540
Credit points: 12.0 KP
Workload: 360 h
Used in course of study:
- Master's Programme Microbiology > Mastermodule

Module responsibility:
- Meinhard Simon
- Authorized examiners
- Alle hier genannten

Module counseling:
- Thorsten Henning Brinkhoff

Entry requirements:
Lecture: Biological significance of suspended matter
The students learn how to address scientific questions and to carry out experimental and/or field work in scientific projects guided by experienced researchers and PhD students. The projects are designed in the context of ongoing research on the ecology of bacterial communities in the water column, oxic sediments and associated to eukaryotic organisms. The students learn to apply various state of the art methods and approaches in aquatic microbial ecology and how to interpret data and results of the projects. They learn to write protocols in the structure of scientific papers and to present own results and reference studies to an audience.

The students gain competences in how to design experiments and address specific research questions in aquatic microbial ecology and to choose appropriate methods. They obtain practical experience in project-targeted application of state of the art methods. This enables them to obtain a more critical view on the application of these and other methods and on the validity of scientific investigations in aquatic microbial ecology.

Module contents:
"Ecology of marine microbes": The students carry out small projects coming out of ongoing research of PhD Thesis work and other current research of the working group. Typically a group of two or three students is guided by a senior researcher and/or a PhD student. In the accompanying seminar, recent scientific studies published in international journals are presented by the students. The results are written down and discussed in a protocol fulfilling scientific level requirements.

Reader's advisory:
will be announced

Links:
Languages of instruction: English, German
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: unlimited
Reference text:
12 CP | SE; PR | 2. FS | Simon

Module level:
je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program:
Seminar (2 CP, 1 SPPW), practical course (10 CP, 9 SPPW)

Vorkenntnisse / Previous knowledge:

Examination:
Final exam of module:
Time of examination:
to be 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 (75 %),
Final oral examination (25 %). 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 of the course supervisor.)

Course type:
Seminar:
Practical:
Total time of attendance for the module:
140 h