

Module Name	Introduction to Chemical Oceanography	
Module Number	MNF-bioc-103	
Person in Charge	Prof. Dr. Eric Achterberg Phone: +49-(0)431-600-4200, E-mail: eachterberg@geomar.de	
Semester / Duration	1. semester / one semester	Status Compulsory
Regular Cycle	annual in winter semester	
Study Programme	Master of Science in Biological Oceanography	
Classes	Class Title (Teaching Form) Lecturers	Contact Time / Group Size
	<u>Chemical Oceanography</u> (Lecture) Prof. Dr. Eric Achterberg	2 hr per week / 50 students
	<u>Chemical Oceanography</u> Exercise) PD Dr. Hermann Bange Prof. Dr. Christa Marandino	1 hrs per week / 50 students
Credit Points / Workload	5 ECTS / 150 hours	
Prerequisites	A bachelor's degree or equivalent in a scientific discipline. Basic knowledge of chemistry.	
Completion Module	None.	
Following Module	None.	
Educational Objectives	Students will gain demonstrable abilities to evaluate the role of ocean chemistry in major elemental cycles and be able to use these to understand interdisciplinary concepts and principles associated with them.	
Content of Teaching	Topics to be covered are: Basic concepts and principles in marine chemistry. Major elemental cycles. Chemical interactions (river-ocean, sediment-ocean, atmosphere-ocean). Air-sea gas exchange.	
Examination	Periodic exercises (graded; 40% of final mark) with pass as prerequisite for graded written exam (60% of final mark)..	
Literature	Recommendations for textbooks and relevant literature will be made during the course.	
Additional Information	The final note will combine the lecture and exercise exams.	