

Module Name	Sustainable Ocean Food Production and Security	
Module Number	bioc380-02a	
Person in Charge	Prof. Dr. Thorsten Reusch Phone: 0431 600-4550; E-mail: treusch@geomar.de	
Semester / Duration	one semester	Status
Regular Cycle	annual in winter semester	Optional
Study Programme	Master of Science in Biological Oceanography	
Classes	Class Title (Teaching Form) Lecturers	Contact Time / Group Size
	Introduction to sustainable ocean food production and security (Lecture) Dr. Hassan Humeida, Dr. Jörn Schmidt	1 SWS / 25 students
	Scientific approaches to sustainable ocean food production and security (Seminar) Dr. Hassan Humeida, Dr. Jörn Schmidt	1 SWS / 25 students
Credit Points / Workload	6 ECTS / 180 hours	
Prerequisites	None	
Completion Module	None.	
Following Module	None.	
Educational Objectives	The topic sustainable marine food production and security cuts across scientific, environmental and social systems and students will be encouraged to build multidisciplinary knowledge. The goal of this module is to promote an interdisciplinary thinking about complex marine issues, which represents an important skill for careers in- or outside academia.	
Content of Teaching	<p>Hosting some of the world's most productive ecosystems, the global ocean plays an increasingly important role in providing food to an ever growing world population. However, global change, pollution, and over-exploitation put the ocean's contribution to human well-being at risk. One key question for science and society is: How can we sustain marine food production for a growing world population? Integrated approaches involving multidisciplinary science, practice, and education may promote a solution-oriented understanding and development toward a sustainable future ocean food security.</p> <p>The interdisciplinary lecture will give an introduction to the various fields of marine food science in the context of past practices and future sustainable development goals (Agenda 2030). Topics include nutritional, environmental (including marine diseases), economic and societal aspects of marine resources for human nutrition as well as future food production and security. One focus will be placed on whether nations depending of fisheries, such as the West-African countries (i.e., Senegal or Ghana), benefit from the ocean food based value chain. Selected case studies will be presented and discussed.</p> <p>Students will lead the seminar's discourse. They will present ocean food related research chosen according to their individual disciplinary background and interest and will moderate the discussion.</p>	
Examination prerequisite	-	
Examination	Graded oral presentation (50%), Written exam (50%)	
Literature	Course contents and further reading will be specified for each course. The course material will be uploaded on OLAT.	
Additional Information	This masters module is interdisciplinary. Students interested in nutritional, environmental, political and societal aspects of marine food science are welcome. The lecture will be given regularly every week which will be followed by student seminars. Please check UnivIS for exact dates.	