

Course Title: Introduction to Ocean Sustainability (Nina Keul et al., contact: nina.keul@ifg.uni-kiel.de, application deadline April 7)

Course Level: open to MSc students (not only from a marine science background, but also students with a study focus on law, resource economy, ethics that are interested in ocean sustainability). 5 ECTS.

Course Content: The key to future ocean sustainability lies in understanding the ocean and treating it as an integrated system with diverse social and natural interactions. The module will concentrate on integrated research areas that focus on the grand challenges faced in attaining ocean sustainability. Students will attend a lecture series where the members of Kiel Marine Sciences will present current topics on ocean sustainability from an interdisciplinary view point. Afterwards, students will work in small groups on a final term paper, in the style of a policy brief.

Learning Outcomes: Students are able to describe the basic concepts of ocean sustainability. Furthermore, students will be familiar with innovative and solution-orientated opportunities for sustainability policy that reduces ocean pressures, enhance resilience and safeguards human prosperity derived from the ocean. Using this knowledge, students will be able to analyse sustainability related topics in an interdisciplinary setting, developing an important skill not only for academic careers, but also for engagement with societal actors and knowledge holders outside academia.

Course Schedule (all lectures recorded on Zoom, always 4-6pm)

date	topic	lecturer
08.04.21	Introduction to the course: objectives, content, expectations	Keul
15.04.21	Marine Hydrocarbons	Prof. Ralph Schneider
22.04.21	Introduction to Sustainability	Prof. Dr. Silja Klepp
29.04.21	Carbon Sinks (CO ₂ storage & Blue Carbon)	Prof. Andreas Oschlies & Prof. Klaus Wallmann
06.05.21	Marine Mineral Resources: Technology & Profitability	Dr. Sven Petersen
20.05.21	Law of theSea: Governance of Marine Resources	Dr. Erik v. Dorn
27.05.21	Insights to Resource Economics	Prof. Marie-Catherine Riekhof
03.06.21	Outline for an ocean ethics	Prof. Konrad Ott
10.06.21	Marine Mineral Resources: Environmental Impacts of Marine Material Extraction/ Mining	Dr. Matthias Haeckel
17.06.21 –		
07.07.21	Self study phase	
08.07.21	Hand in final term paper	