Course
Specifications
Valid as from the academic year 2019-2020

Ecology of Coastal Seas (C002491)

Course size
(nominal values; actual values may depend on programme)

Credits 3.0  Study time 90 h  Contact hrs 20.0 h

Course offerings and teaching methods in academic year 2019-2020
A (semester 2)  English  lecture 20.0 h

Lecturers in academic year 2019-2020
De Troch, Marleen  WE11  lecturer-in-charge

Offered in the following programmes in 2019-2020

Master of Science in Marine and Lacustrine Science and Management

3  A

tcrdts  offering

Teaching languages
English

Keywords
Coastal Seas, Ecology, Functional Biodiversity, continental shelf beds, sandy beaches, seagrass beds, rocky shores, coastal zone management.

Position of the course
To take an ecosystem approach to ‘marine’ coastal ecology. It will offer integrated approaches related to shallow coastal seas with a focus on case studies from European waters (North Sea, Baltic Sea, Mediterranean, Black Sea and Caspian Sea), including intertidal areas.

Contents
This course will describe and explain processes related to rocky shores and soft substrate environments (sandy beaches, mudflats, subtidal shallow sandbanks, reef systems). Emphasis will be given on whole-ecosystem approach going from physical structure and functioning, physical-biological interactions, nutrient fluxes, food web structure, community dynamics, biodiversity threads, nature conservation and management.

Initial competences
Basics in marine biology, geology, chemistry and oceanography.

Final competences
This discipline contributes to a multidisciplinary training of a marine and lacustrine scientist.

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment.

Conditions for exam contract
This course unit cannot be taken via an exam contract.

Teaching methods
Lecture

Extra information on the teaching methods
A series of case studies are documented, presented by post-doc experts in marine biology.

Learning materials and price
Several handbooks and recent review articles.

(Approved)
References
  Mann 2000: Ecology of coastal waters; several recent scientific papers.
Course content-related study coaching

Evaluation methods
  end-of-term evaluation
Examination methods in case of periodic evaluation during the first examination period
  Written examination with open questions, report
Examination methods in case of periodic evaluation during the second examination period
  Written examination with open questions, report
Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
  not applicable
Extra information on the examination methods
  Calculation of the examination mark A seminar is presented by the students; interaction
  with the audience is in this case very important as well. Both aspects, seminar
  presentation, report and discussion are evaluated in equal parts.

Calculation of the examination mark