

COASTAL AND MARINE BIOLOGY AND ECOLOGY (LM51)

(Lecce - Università degli Studi)

Teaching MARINE LIFE CYCLES

GenCod A005727

Owner professor Adriana GIANGRANDE

Teaching in italian MARINE LIFE CYCLES **Course year** 1

Teaching MARINE LIFE CYCLES

Language ENGLISH

SSD code BIO/05

Curriculum PERCORSO COMUNE

Reference course COASTAL AND MARINE BIOLOGY AND ECOLOGY

Course type Laurea Magistrale

Location Lecce

Credits 5.0

Semester First Semester

Teaching hours Front activity hours: 42.0

Exam type

For enrolled in 2019/2020

Assessment

Taught in 2019/2020

Course timetable

<https://easyroom.unisalento.it/Orario>

BRIEF COURSE DESCRIPTION

diversity and evolution of life cycle of marine invertebrates .he knowledge of reproductive biology and diversity of larval forms is utilized to understand the evolution of life cycle and its implication in determining the invertebrate distribution and ecology

REQUIREMENTS

Knowledge of zoology and especially on animal phylogeny and taxonomy knowledge of basical ecology rules

COURSE AIMS

enable students to read specific paper on the topic in a critical manner, and to be able to carry out personal research on the subject treated during the course

the knowledge of reproductive biology and diversity of larval forms is utilized to understand the evolution of life cycle and its implication in determining the invertebrate distribution and ecology

TEACHING METHODOLOGY

in addition to frontal teaching and field exercises, students actively participate by producing their own presentations of the topics and analyzing publications on the topic.

ASSESSMENT TYPE

written and oral examination

FULL SYLLABUS

Description of complex life cycle in Marine invertebrates
Larval diversity in: Basal metazoa, Bilaterian: Protostome Lophotrochozoa and Ecdisozoa;
Deuterostome
Case of study: molluscs, polychaetes echinoderms
Importance of egg size and covariability of traits in marine invertebrates
integrating functions in the evolution of life cycle
phylogenetic constraints
Meaning of the developmental diversity
Evolutionary and ecological aspects
More on larval dispersal
life history theories
Importance of life cycle knowledge in ecological studies
Description of settlement and recruitment, population and community dynamics
Supply side ecology and connectivities
Bio-physical models
Some examples

REFERENCE TEXT BOOKS

material provided by the teacher