

UNIVERSITÀ DEL SALENTO
DIPARTIMENTO DI SCIENZE E TECNOLOGIE BIOLOGICHE E AMBIENTALI

MANIFESTO DEGLI STUDI A.A. 2018/2019

Corso di laurea magistrale in
COASTAL AND MARINE BIOLOGY AND ECOLOGY
(BIOLOGIA ED ECOLOGIA COSTIERA E MARINA)
cl. LM-6

(approvato dal Consiglio di Dipartimento del DiSteBA nella riunione del 5/6/2018)

***Master Course in “Coastal and Marine Biology and Ecology”
Class LM-6***

(Master course entirely taught in English language)

General Information

Designed for students passionate of marine life and ecosystems, seeking for high professional qualification at international level, the Coastal and Marine Biology and Ecology (CMBE) Master Course delivers qualified education on fundamental and applied biological and ecological marine sciences, aiming at understanding of the phenomena at various scales in coastal, transitional, and marine ecosystems (see video at <https://www.unisalento.it/web/10122/320>).

CMBE is a two-year, second level course (according to Decree of Italian Educational, Universities and Research Ministry n°270/2004) without a programmed number of enrolled students. As specified within the annual CMBE Manifesto for Educational Activities, enrolment to the Course requires the possession of specific curricular requisites and the positive evaluation of the personal preparation of the applicant, according to the terms yearly published in the admission call. To obtain the final qualification, a student must achieve a minimum of 120 CFU's (University Formative Credits) including 30 CFU's related to the final verification test. This is related to reporting about internship or research work experience previously approved by the Academic Biology Council - at public or private research institutions, Universities, or companies.

In Italy, this is the first marine biology course entirely taught in English and the only one delivering a double Master degree by the recent agreement (March 2017) between the University of Lille1, and the University of Salento. Each year, five selected students of the University of Salento can get a fellowship to spend 6 to 12 months of the second academic year in France, at University of Lille1. This period will entitle these students to achieve two master degrees (one from University of Salento, Lecce, and one from the University of Lille 1, instead of a single degree (<https://goo.gl/cjT08B>)).

The CMBE faculty members are involved in several European research projects. These links and the ERASMUS+ program jointly provide our students superb opportunities to spend up to 12 month- mobility periods abroad, and to fulfil a master thesis in prestigious European research institutes. In this context, students from all over Italy and abroad find a stimulating training environment, including practical applications, making the course a true international laboratory.

The main occupational perspectives deal with research and consultancy work in public bodies and private companies in the field of conservation and management of coastal and marine ecosystems, management of protected areas, assessment of the environmental health status and risks. Also, the CMBE degree opens the access to postgraduate and PhD courses in several areas of Marine Sciences. The availability of a 14-m long research boat and terrestrial vehicles equipped for the different types of sampling activities represent further support to the need of gaining the practical skills typically requested by the international job market.

For the achievement of the CMBE academic title, students must acquire at least 120 ECTS (European Credit Transfer System) equivalent to 120 Italian CFUs (Crediti Formativi Universitari).

Each ECTS corresponds to 25 hours of learning activities, alternatively organized as follows:

- 8 hours of theoretical lectures + 17 hours of individual study of the student;
- 12 hours of laboratory activity (*practicals*) + 13 hours of personal re-elaboration of practical lab activities;
- 25 hours of personal traineeship training or final exam preparation.

Educational activities

The Master Course in Coastal and Marine Biology and Ecology includes 5 *categories of learning activities* (“B”: Core subjects in various disciplines of biology; “C”: Training activities in disciplines related to biology and consistent with the educational objectives of the course, plus an integrated interdisciplinary training; “D”: Activities chosen by the student; “E”: Training activities aimed at preparing the final examination for the attainment of the qualification; “F”: Training activities to facilitate the professional choices through direct knowledge of the business sector the diploma may give access to, including, in particular, internships, apprenticeships and guidance) listed in the attached diagram (n. 1).

Concerning typology D of learning activities (second year of the course, 12 ECTS/CFU), these may coincide with the teaching/training activities of any one of the University's degree programs, provided that they are consistent with the student's CMBE training plan and subject to the approval of the Academic Council of CMBE, or with activities related to the preparation of the final elaboration, and external apprenticeship activities.

Learning activities offered in the academic year 2018/2019 at the different University of Salento Course Programs are available on-line in the "Didattica > Percorsi di studio" section of the Portal <https://www.unisalento.it>. A general overview (in English language) of graduate programs is available at <http://international.unisalento.it/graduate-programmes/>.

Among others, the Academic Council suggests the selection of the learning activity named “Zoologia applicata alla conservazione e gestione dei sistemi naturali” (SSD BIO/05, 6 ECTS/CFU, in Italian language) offered at the University of Salento in the framework of the Laurea Magistrale in Scienze Ambientali (cl. LM-75).

Also, the Academic Council encourages the participation to ERASMUS+ program to carry out internships, training activities, or research work experience abroad. This will be also acknowledged by 1 additional point to the scoring of the final exam.

Each student can include in the study plan either the training activities proposed in this *Manifesto* (to be selected by the on-line procedure on the Student Web Portal) or any other learning activities elsewhere offered in academic year 2018/2019.

Following enrolment, each student must fill the online curriculum provisionally selecting one or more activities of D type (up to 12 ECTS/CFU) among those proposed by the Academic Council. Then, by 14 December 2018, the student must submit to the Secretariat (Ecotekne Congress Centre, first floor) a paper form listing the preferred D-type learning activities (others than those available on the on-line portal) to replace the previously selected activities. This list will be subject to the approval of the Academic Council. The paper form is available at <https://goo.gl/PSEvdF>.

The deadline of 14 December 2018 is postponed to 18 January 2019 for students who are enrolled following the entrance exam of December 2018 and on May 3, 2019 for those who enroll following the entrance exam of April 2019.

The temporal sequence of learning activities proposed in the Manifesto of the CMBE course is suggested to the student for the examinations. Attendance to lectures is not compulsory, even though it is a key condition allowing a fruitful, smooth educational training of the CMBE student. Students, furthermore, are bound to attend laboratory activities, stages, seminars and trainings for at least 2/3 of their duration.

The Course includes the following *attendance rules*:

Attendance to theoretical lectures is not compulsory, even though it is an essential condition for a fruitful participation of the student to the teaching organization of the Course. Students, furthermore, are required to attend laboratory activities, stages, seminars and trainings for at least 2/3 of their duration.

Class calendar

Teaching activities are organized in two semesters.

Classes are scheduled as follows:

- I semester: from October 8, 2018 to January 25, 2019
- II semester: from March 11, 2019 to June 7, 2019

Acquisition of CFU and Exams

All activities that allow ECTS acquisition are subject to evaluation. Assessment procedures are made, as appropriate, by written, or oral, or written and oral examinations, or by other procedures suitable for particular types of activity.

The activities of type B, C and D are usually evaluated by appraisal in thirtieth, up to thirty *cum laude*, witnessing student's excellence. For teaching activities involving laboratory exercises, accreditation may be made through evaluation of individual work on subjects related to ongoing exercise, the details of which are given by the instructor and approved by the body responsible for Competent Teaching. The methods for the above tests are set by resolution of the Competent Body Learning (Academic Council) and illustrated by the instructor at the beginning of the course.

Exams are scheduled as follows (only during periods of suspension of learning activities):

- 3 sessions between January 28th and March 9th 2019
- 1 session in June (after the 10th)
- 2 sessions in July
- 1 session in September
- only for students who did not pass all exams within the prescribed periods (*fuori corso*), reserved sessions will be opened in **November 2018, March and May 2019**. Students enrolled in second year of the CMBE course may take advantage in the second semester of extraordinary sessions to be opened upon specific agreement with course teachers.

Students near to graduation (*graduands*) may request an extraordinary exam session before the session of graduation, if no sessions are scheduled.

To be considered *graduands*, students must:

- a. have applied for graduation according to the terms fixed by the Student Secretariat;
- b. have a maximum of remaining 15 ECTS to complete their educational path (this does not include the ECTS allocated for the training period - also known as *stage* - and final thesis work)-

All examination appeals scheduled after 30 April 2019, even though extraordinary appeals reserved for students who have given up frequency requirements in a.a. 2017/2018, will be referred to the session Summer of the academic year 2018/2019 and NOT at the extraordinary session of the academic year 2017/2018.

The acquisition of ECTS of type f) concerning internships or work experience - previously cleared by the Academic Council - at research institutions or universities, public or private companies, may be based on an activity report and does not provide an associated vote, but only an assessment of fairness expressed by the Academic Council.

Sessions Degrees

Graduation sessions are planned in the following periods:

- 16-18 July 2019
- 17-19 October 2019
- 11-13 December 2019

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- 18-20 March 2020
- 15-17 April 2020

Final Test

The final test for the achievement of the Graduation in Coastal and Marine Biology and Ecology consists in the public presentation and discussion, in front of an appointed commission, of a written text (Thesis work). The topic will be agreed upon with a member of the teaching staff of the CMBE course and it may involve also external tutors.

In attachment: *Regulation Final Test CMBE (n. 2)*.

Knowledge required for access to the course, procedures for verifying the preparation of the student, employment and professional opportunities for graduates

Refer to the Degree Course website:

<https://www.unisalento.it/didattica/cosa-studiare/corsi-di-laurea-magistrale/-/dettaglio/corso/LM51/coastal-and-marine-biology-and-ecology>

Rules of admission to the Course

The terms will be established at the beginning of each academic year and will be made explicit in the admission notification.

Università del Salento - DiSTeBA
Corso di Laurea Magistrale in Coastal and Marine Biology and Ecology (Biologia ed Ecologia Costiera e Marina) - LM51
Offerta didattica erogata a.a. 2018/2019

I anno (Immatricolati a.a. 2018/2019)

Nome Insegnamento	Tipo Insegnamento (Monodisciplinare / Integrato / Modulo)	CFU complessivi	CFU lezione	CFU esercitazione / laboratorio	Ore lezione	Ore esercitazione	Ore complessive attività frontale	SSD	TAF	Ambito	Responsabile Didattico	Docente	Docente di riferimento	Semestre
Ecological indicators and biomonitoring	Monodisciplinare	6	3	3	24	36	60	BIO/07	Caratterizzante	Discipline del settore biodiversità e ambiente	Pinna Maurizio	Pinna Maurizio	SI	II
Ecology and Biology of Transitional Waters	Modulo di Ecology and Biology of Transitional and Marine Waters	6	4	2	32	24	56	BIO/07	Caratterizzante	Discipline del settore biodiversità e ambiente	Basset Alberto	Basset Alberto	SI	II
Marine Biology and Ecology	Modulo di Ecology and Biology of Transitional and Marine Waters	5	4	1	32	12	44	BIO/07	Caratterizzante	Discipline del settore biodiversità e ambiente	Basset Alberto	Fraschetti Simona		I
Community Ecology	Monodisciplinare	6	3	3	24	36	60	BIO/07	Caratterizzante	Discipline del settore biodiversità e ambiente	Mancinelli Giorgio	Mancinelli Giorgio	SI	II
Environmental microbiology	Monodisciplinare	6	6	----	48		48	BIO/19	Caratterizzante	Discipline del settore biomolecolare	Alifano Pietro	Alifano Pietro		I
Development and Evolution	Modulo di Life cycles, Development and Evolution	5	4	1	32	12	44	BIO/05	Caratterizzante	Discipline del settore biodiversità e ambiente	Piraino Stefano	Piraino Stefano	SI	I
Life cycles	Modulo di Life cycles, Development and Evolution	5	4	1	32	12	44	BIO/05	Caratterizzante	Discipline del settore biodiversità e ambiente	Piraino Stefano	Giangrande Adriana		I
Pelagos Biology (Zooplankton and Necton)	Monodisciplinare	8	7	1	56	12	68	BIO/05	Caratterizzante	Discipline del settore biodiversità e ambiente	Belmonte Genuario	Belmonte Genuario	SI	II
Biodiversity of coastal plants	Monodisciplinare	9	8	1	64	12	76	BIO/02	Caratterizzante	Discipline del settore biodiversità e ambiente	Zuccarello Vincenzo	Zuccarello Vincenzo		II
Oceanography of Marginal Seas and of the Coastal Zone	Monodisciplinare	6	6	----	48		48	GEO/12	Affine/Integrativa	Attività formative affini o integrative	Lionello Piero	Lionello Piero		I

II anno (Immatricolati a.a. 2017/2018)

Nome Insegnamento	Tipo Insegnamento (Monodisciplinare / Integrato / Modulo)	CFU complessivi	CFU lezione	CFU esercitazione / laboratorio	Ore lezione	Ore esercitazione	Ore complessive attività frontale	SSD	TAF	Ambito	Responsabile Didattico	Docente	Docente di riferimento	Semestre
Environmental Physiology	Monodisciplinare	6	5	1	40	12	52	BIO/09	Caratterizzante	Discipline del settore biomedico	Lionetto Giulia	Lionetto Giulia		I
Marine biodiversity and ecosystem functioning	Monodisciplinare	6	6	----	48		48	BIO/05	Caratterizzante	Discipline del settore biodiversità e ambiente	Boero Ferdinando	Boero Ferdinando	SI	I
Environmental chemistry	Monodisciplinare	6	5	1	40	12	52	CHIM/12	Affine/Integrativa	Attività formative affini o integrative	Genga Alessandra	Genga Alessandra		I
Activities Chosen by the Student		9							A scelta dello studente	A scelta dello studente				---
Ethical, Economic and Normative Aspects		1							Altro	Altre conoscenze utili per l'inserimento nel mondo del lavoro				I
Final Test		30							Lingua/Prova finale	Per la prova finale				---

1 "CFU lezione" corresponds to nr. 8 hours of frontal lectures in the classroom
1 "CFU esercitazione/laboratorio" corresponds to n. 12 hours of practical activities

REGOLAMENTO DI ACCESSO ALL'INTERNATO DI LAUREA

CORSI DI LAUREA MAGISTRALE IN BIOLOGIA (LM-47) E BIOLOGIA ED ECOLOGIA COSTIERA E MARINA (LM-48)

(Approvato dal CDB in data 30 Maggio 2011)

L'ammissione all'internato di laurea per la **LM in Biologia** e per la **LM in Biologia ed Ecologia Costiera e Marina** è regolamentata dalle seguenti norme:

- 1) per poter iniziare il periodo di internato gli studenti devono avere acquisito almeno **40 CFU**;
- 2) non è possibile iniziare il periodo di internato prima della conclusione delle lezioni del I anno di corso;
- 3) le ore corrispondenti ai CFU relativi all'elaborato finale (tesi) devono essere distribuiti in un periodo di tempo compreso tra **8 mesi (minimo) e 12 mesi (massimo)** (da stabilire, in accordo con il docente, in base alle esigenze del lavoro sperimentale da svolgere);
- 4) **15 giorni** prima della scadenza della presentazione delle domande di ammissione all'internato, il Consiglio Didattico provvederà a comunicare l'elenco delle disponibilità (dopo avere ricevuto la comunicazione dai Docenti del numero dei posti disponibili per ogni disciplina);
- 5) **nei 15 giorni** tra l'affissione delle disponibilità e la presentazione delle domande, gli studenti potranno prendere contatto con i docenti per conoscere le modalità di svolgimento dell'internato, il tipo di ricerca, etc...;
- 6) nella domanda di assegnazione tesi, gli studenti possono indicare al massimo **tre differenti discipline (in ordine di preferenza)**;
- 7) l'assegnazione delle tesi sarà effettuata in base al numero dei CFU in possesso degli studenti;
 - a) **se due studenti chiedono l'assegnazione della tesi in una disciplina che ha dato UNA disponibilità, il posto sarà attribuito allo studente che ha il maggior numero di CFU acquisiti**;
 - b) **a parità di CFU acquisiti il posto sarà attribuito al candidato che ha indicato (nella sua domanda) la disciplina come prima scelta**;
- 8) gli studenti eventualmente non compresi nella prima fase delle assegnazioni potranno:
 - scegliere una delle disponibilità rimaste vacanti**;
 - contattare i docenti per un eventuale ampliamento delle disponibilità**;
- 9) il Consiglio Didattico provvederà a comunicare (mediante avviso esposto in bacheca) l'avvenuta assegnazione.

SONO PREVISTI TRE CICLI PER A.A. PER L'INIZIO DELL' INTERNATO

I CICLO

1 Febbraio - Disponibilità
15 Febbraio - Presentazione domande
1 Marzo - Inizio internato

II CICLO

1 Luglio - Disponibilità
15 Luglio - Presentazione domande
1 Settembre - Inizio internato

III CICLO

1 Novembre - Disponibilità
15 Novembre - Presentazione domande
1 Dicembre - Inizio internato

Prima dell'inizio del periodo di internato gli studenti sono tenuti a frequentare i seminari di Sicurezza di Laboratorio organizzati da Se.Si.Ge.R

Consiglio Didattico in Biologia
Nuovo regolamento per l'attribuzione del voto finale di laurea
(in vigore dal 12 ottobre 2016)

Laurea magistrale in Biologia
Laurea magistrale in Coastal and Marine Biology and Ecology

Alla media dei voti conseguiti negli esami di profitto, espressa in centodecimi, si aggiungono:

- **1 punto** se il/la candidato/a nel corso degli studi ha superato almeno 2 esami con la votazione di trenta e lode.
- **1 punto** se il/la candidato/a è "*in corso*", ossia iscritto al secondo anno del corso di studi;
- **1 punto** se il/la candidato/a ha svolto un tirocinio o stage di formazione all'estero nell'ambito del programma ERASMUS+ o di accordo di cooperazione e mobilità equivalente (*)
- **sino a 7 punti**, a discrezione della Commissione, per la valutazione dell'elaborato finale;

(*) stage secondo norme ERASMUS di durata minima 3 mesi. Per gli stage non ERASMUS è necessaria l'approvazione della Commissione Paritetica.

Per la proposta di attribuzione della lode, il candidato deve ottenere i 7 punti a disposizione della Commissione e raggiungere - sommando tutti i punti di cui sopra - la soglia di **almeno 113 centodecimi**.

Alcuni esempi:

- candidato/a con media 102, cui si aggiungono 7 punti Commissione, 1 punto "*in corso*", 1 punto ERASMUS. Totale 111, non accede alla proposta di lode;
- candidato/a con media 103, cui si aggiungono 7 punti Commissione, 1 punto "*in corso*", 1 punto ERASMUS, 1 punto per almeno due esami con 30/lode. Totale 113, il relatore può chiedere la lode
- candidato/a con media 104, cui si aggiungono 7 punti Commissione, 1 punto per almeno due esami con 30/lode, 1 punto "*in corso*". Totale 113, il relatore può chiedere la lode;
- candidato/a "*fuori corso*" con media 105, cui si aggiungono 7 punti Commissione, 1 punto per almeno due esami con 30/lode. Totale 113, il relatore può chiedere la lode
- candidato/a "*fuori corso*" con media 106, cui si aggiungono 7 punti Commissione. Totale 113, il relatore può chiedere la lode

Ai candidati la cui media dei voti nei singoli esami di profitto è pari a 110/110, su proposta del relatore, la Commissione può assegnare la MENZIONE DI MERITO.