

UNIVERSITÀ DEL SALENTO  
FACOLTÀ DI SCIENZE MATEMATICHE, FISICHE E NATURALI  
MANIFESTO DEGLI STUDI A.A. 2013/2014

*Corso di Laurea magistrale in*  
*COASTAL AND MARINE*  
*BIOLOGY AND ECOLOGY*  
*(classe LM-6)*

UNIVERSITÀ DEL SALENTO  
FACOLTÀ DI SCIENZE MATEMATICHE, FISICHE E NATURALI  
MANIFESTO DEGLI STUDI A.A. 2013/2014

***Course of Coastal and Marine Biology and Ecology (Cl. LM-6)***  
*- Laurea Magistrale in lingua inglese -*

***General Information***

*Coastal and Marine Biology and Ecology* is a two-year II level course according to DM 270/04, which does not contemplate a fixed number of enrolled students. As specified within the related Schema of Teaching Organization, admission to this Course requires the possession of specific curricular requisites and it is subordinated to the overcoming of evaluation of the adequacy of their personal preparation according to the terms that will be established at the beginning of each academic year and will be made explicit in the admission notification.

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 test (which concerns internships or work experience - previously cleared by the Educational Competent Body - 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 Educational Competent Body).

***Educational activities***

The Course of 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.

The "activities chosen by the student", at the second year, will coincide with the teaching / learning activities of any of the courses of study 'University provided consistent with the training of the student.

The student can choose (as already approved by the Academic Council) - the courses offered in academic year 2013/14 (as delivered in the second level courses), belonging to the Scientific-Disciplinary BIO/\*, MED/\*, CHIM/\*, MAT/\*, FIS/\*, GEO/\*, INF/\* and ING-INF/.\*

Each student can include in the study plan either the training activities proposed in this *Manifesto* (which he will select using a procedure available in the online Student Web Portal) or other courses offered in AY 2013/2014. In the latter case, the student must present their plan of study in paper form (available in the Section Section "*Training Offer / Activities in the student's choice*" of the Portal of the

UNIVERSITÀ DEL SALENTO  
FACOLTÀ DI SCIENZE MATEMATICHE, FISICHE E NATURALI  
MANIFESTO DEGLI STUDI A.A. 2013/2014

Faculty of Science MMFFNN) to be delivered to the Secretariat no later than December 20, 2013 and bring to the attention of the Academic Council for approval.

The course includes the following *prerequisites*:

There are no prerequisites. However, the temporal sequence of courses of instruction given in the Manifesto of the Course, is suggested to the student for the examinations.

Attendance to theoretical lectures is not compulsory, even though it is an essential condition for a fruitful insertion of the student in the didactic organization of the Corso di Laurea Magistrale. 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 so scheduled:

- I semester: **from October 7, 2013 to January 24, 2014**
- II semester: **from March 17, 2014 to June 13, 2014**

**The classes will be suspended for one week, during each semester, to permit the performance of any mid-term evaluations**

### ***Acquisition of CFU and Exams***

All activities that allow credits acquisition carry an evaluation. Assessment procedures are made, as appropriate, by either written, or oral, or written and oral tests, or by other procedures suitable for particular types of activity.

The activities of type B, C and D are usually evaluated by a vote out of thirty possibly *cum laude*. 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 (Educational Council) and illustrated by the instructor at the beginning of the course.

Exams are programmed as follows (during periods of suspension of classes):

UNIVERSITÀ DEL SALENTO  
FACOLTÀ DI SCIENZE MATEMATICHE, FISICHE E NATURALI  
MANIFESTO DEGLI STUDI A.A. 2013/2014

- 2 sessions in February
- **1 session in March (by the 15<sup>th</sup>)**
- **1 session in June (after the 13<sup>th</sup>)**
- 2 sessions in July
- 1 session in September
- There are also three extra sessions, only for the students outside the normal duration of the course during the months of November, January and April

Students enrolled in second year (ongoing) of the LM, will take advantage of any extra session (during the second half) agreed with the teachers

Students about to graduate may request an extraordinary call before the session of graduation, if no sessions are scheduled.

To be considered on track to graduate, students must:

- a. have applied for graduation according to the terms fixed by the “Segreteria Carriere Studenti”
- b. support a maximum of 14 credits (excluding credits for the Stage and to final thesis) in order to complete their educational path.

The acquisition of CFU of type f) concerning internships or work experience - previously cleared by the Educational Competent Body - 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 +Educational Competent Body.

### ***Sessions Degrees***

Graduation sessions are planned in:

- July, 2013
- October, 2013
- December, 2013
- March, 2014
- April, 2014

### ***Final Test***

The final test to obtain the LM 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). The topic will be agreed upon with a docent of the Course Coastal and Marine Biology and Ecology

### ***Knowledge required to access the course***

UNIVERSITÀ DEL SALENTO  
FACOLTÀ DI SCIENZE MATEMATICHE, FISICHE E NATURALI  
MANIFESTO DEGLI STUDI A.A. 2013/2014

Admission to the Master's Degree (Corso di Laurea Magistrale) in Coastal and Marine Biology and Ecology requires the possession of a three-year degree or a three-year university diploma, or any other title obtained abroad and recognized as suitable. To be enrolled in the Master's Degree in Coastal and Marine Biology and Ecology, candidates must possess the following curricular requisites (expressed in terms of CFU – University Formative Credits – referred to the groups of sectors listed below):

- 1) GROUP 1 (BIO01, BIO02, BIO03, BIO05, BIO07): from 10 to 40;
- 2) GROUP 2 (BIO06, BIO09, BIO10, BIO18, BIO19): from 10 to 20;
- 3) GROUP 3 (MAT05, MAT06, MAT07, CHIM03, CHIM06): from 5 to 20.

To be admitted to the following evaluation of the adequacy of their personal preparation, candidates must have at least 60 CFU's (calculated as the sum of the possessed CFU in the three disciplinary groups reported above).

In addition to the requisites listed above, students must also possess at least 3 CFU's regarding the knowledge of the English language. This knowledge will be evaluated during the test of the initial preparation. These requirements are not applicable to English mother-tongue students. The required curricular requisites refer to basic knowledge. Any additions to curriculum in terms of academic credits to be acquired by the candidates, before they can access to verify the adequacy of personal preparation, through the passing of examinations of "single subject" in the manner prescribed in the Regole per gli studenti A.A. 2013/2014.

***Procedures for verifying the preparation of the student***

To verify the adequacy of the personal preparation for the admission to the Master's Degree (art. 6, par. 2 and art. 11 par. 7 of the DM of 16 march 2007), each student will have to pass an oral admission test aimed also at verifying his/her knowledge of the English language.

***Professional Career opportunities for graduates***

Graduates in Coastal and Marine Biology and Ecology must possess a solid cultural preparation in basic biology, and in the various sectors of applied biology aimed at the understanding of the ecological phenomena that are realized at the level of the various scales in coastal, transitional, and marine ecosystems. Since all courses will be in English, graduates Coastal and Marine Biology and Ecology must be proficient in scientific English.

A Master's Degree in Coastal and Marine Biology and Ecology allows you to: access to postgraduate courses (on competition); access to PhD courses (on competition); work in private laboratories; practice the profession (after enrollment in the National Order of Biologists).

UNIVERSITÀ DEL SALENTO  
FACOLTÀ DI SCIENZE MATEMATICHE, FISICHE E NATURALI  
MANIFESTO DEGLI STUDI A.A. 2013/2014

***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 (Ref. <http://www.scienzemfn.unisalento.it/bandiammissione cds>)

\* \* \*

*For more information see the Faculty Web Site on the URL*  
[http://www.scienzemfn.unisalento.it/home\\_page](http://www.scienzemfn.unisalento.it/home_page)

**Università del Salento - Facoltà di Scienze MM.FF.NN.**  
**Corso di Laurea Magistrale in Coastal and Marine Biology and Ecology (LM51, classe LM-6)**  
**Manifesto degli Studi A.A. 2013/2014**

**I anno (Rif. Regolamento Didattico A.A. 2013/2014)**

<b>Nome Insegnamento</b>	<b>CFU complessivi</b>	<b>CFU lezione</b>	<b>CFU esercitazione / laboratorio</b>	<b>Ore complessive attività frontale</b>	<b>SSD</b>	<b>TAF</b>	<b>Ambito</b>	<b>Periodo</b>	<b>Responsabile Didattico</b>	<b>Docente</b>
<b>Marine biology and ecology</b>	6	6	---	48	BIO/05	Caratterizzante	Discipline del settore biodiversità e ambiente	II semestre	Boero Ferdinando	Boero Ferdinando
<b>Biology and ecology of transitional waters</b>	6	4	2	56	BIO/07	Caratterizzante	Discipline del settore biodiversità e ambiente	II semestre	Basset Alberto	Basset Alberto
<b>Environmental microbiology</b>	6	6	---	48	BIO/19	Caratterizzante	Discipline del settore biomolecolare	I semestre	Pietro Alifano	Pietro Alifano
<b>Climatology of Marginal Seas and of the Coastal Zone</b>	6	6	---	48	FIS/06	Affine/Integrativo	Attività formative affini o integrative	I semestre	Lionello Piero	Lionello Piero
<b>Community Ecology</b>	6	3	3	60	BIO/07	Caratterizzante	Discipline del settore biodiversità e ambiente	II semestre	Mancinelli Giorgio	Mancinelli Giorgio
<b>Life cycles and development</b>	10			88						
<i>Integrated course whose modules are:</i>										
Life cycles and ecology	5	4	1	44	BIO/05	Caratterizzante	Discipline del settore biodiversità e ambiente	I semestre	Piraino Stefano	Giangrande Adriana
Development and evolution	5	4	1	44	BIO/05	Caratterizzante	Discipline del settore biodiversità e ambiente	I semestre	Piraino Stefano	Piraino Stefano
<b>Pelagos Biology (Zooplankton and Necton)</b>	10	9	1	84	BIO/05	Caratterizzante	Discipline del settore biodiversità e ambiente	II semestre	Belmonte Genuario	Belmonte Genuario
<b>Biological indicators and biomonitoring</b>	6	3	3	60	BIO/07	Caratterizzante	Discipline del settore biodiversità e ambiente	II semestre	Pinna Maurizio	Pinna Maurizio

**II anno (Rif. Regolamento Didattico A.A. 2012/2013)**

<b>Nome Insegnamento</b>	<b>CFU complessivi</b>	<b>CFU lezione</b>	<b>CFU esercitazione / laboratorio</b>	<b>Ore complessive attività frontale</b>	<b>SSD</b>	<b>TAF</b>	<b>Ambito</b>	<b>Periodo</b>	<b>Responsabile Didattico</b>	<b>Docente</b>
<b>Environmental Physiology</b>	6	5	1	52	BIO/09	Caratterizzante	Discipline del settore biodiversità e ambiente	I semestre	Lionetto M. Giulia	Lionetto M. Giulia
<b>Systematic Botany and quantitative Plant Ecology</b>	12			96						
<i>Integrated course whose modules are:</i>										
Systematic Botany	6	6	---	48	BIO/02	Caratterizzante	Discipline del settore biodiversità e ambiente	II semestre	Zuccarello Vincenzo	Marchiori Silvano
Quantitative Plant Ecology	6	6	---	48	BIO/03	Caratterizzante	Discipline del settore biodiversità e ambiente	II semestre	Zuccarello Vincenzo	Zuccarello Vincenzo
<b>Organic Chemistry of Coastal and Marine Ecosystem</b>	6	6	---	48	CHIM/06	Affini/Integrative	Attività formative affini o integrative	I semestre	Epifani Ervana	Epifani Ervana
<b>Activities chosen by the students</b>	9					A scelta dello studente	A scelta dello studente	I e II semestre		
<b>Ethical, Economic and Normative Aspects</b>	1					Altro	Altre conoscenze utili per l'inserimento nel mondo del lavoro	II semestre		
<b>Final test</b>	30					Lingua/prova finale	Per la prova finale			

Notes:

1 "CFU lezione" corresponds to nr. 8 hours of frontal lectures in the classroom

**Università del Salento - Facoltà di Scienze MM.FF.NN.**  
**Corso di Laurea Magistrale in Coastal and Marine Biology and Ecology (LM51, classe LM-6)**  
**Manifesto degli Studi A.A. 2013/2014**

*1 "CFU esercitazione/laboratorio" corresponds to nr. 12 hours of practical activities*