

DOCTORAL PROGRAMS

Marine Sciences

Identificative data of the program

Code	H0602
Denomination	Marine Sciences
Areas of the program	Ciències Enginyeria i Arquitectura Ciències Mèdiques i de la Salut Ciències Socials Ciències de la Vida
Maximum number of students	50
URL of the program	http://www.ub.edu/acad/doctorat/oferta/56_2005_0708.html

Coordinator

Name	Miquel Canals Artigas
Department	ESTRATIGRAFIA I PALEONTOLOGIA I GEOCIÈNCIES MARINES
Centre	FACULTAT DE GEOLOGIA
E-mail	miquelcanals@ub.edu
Telephone	934021360
Fax	934021340

Training period

UB master/s which is/are partially or totally integrated in this period:

Master

Ciències del Mar: Oceanografia i Gestió del Medi Marí Parcial

Research period

General objectives of the program

- To offer, in first instance, a vision extends and multidisciplinary of Sciences of the Sea, in its slopes scientific and applied.
- To give the opportunity to deepen in questions of specialization in anyone of the disciplines that converge in Sciences of the Sea, including the management of marine means and the alive and nonalive marine resources.
- To facilitate the access to platforms advanced in the scope of Sciences of the Sea, from oceanographic research ships to great scientific equipments.

Procedimientos, requisitos y criterios específicos de admisión al programa, así como de valoración de los méritos de las personas candidatas.

The access to the research period may start when the student holds a degree diploma, or equivalent, and fulfils at least one of the following requirements:

- Holding an official university master diploma or another equivalent diploma issued by a high education institution belonging to the European Space of High Education (ESHE).
- Holding a diploma issued according to an educational system different from the ESHE without necessity to get it formally homologated, though after verification that the diploma grants a formation level equivalent to the Spanish university master diplomas, and also that the diploma gives access to doctorate studies in the original country.
- Holding 60 academic credits in one or more university masters offered by UB.
- Holding a Degree Diploma of at least 300 credits, in accordance with the regulations of the European Community law. In this case, the specific formation (training) components judged necessary will be added during the research period, which will be carried out within a university master of the UB. These complements must be fully achieved before submitting and defending the project of the Doctorate Thesis.

The commission of the doctorate program will analyze and decide on the registration requests, following the criteria that apply to the program. During the admission procedure, the commission of the doctorate program will assign the student to a research line and nominate

a Thesis director.

The formation (training) period previous to the research period consists of the Master of Marine Sciences: Oceanography and Management of the Marine Environment, and the Master of Economy and Management of Fisheries. The Master of Aquiculture has close affinities to the Marine Sciences doctorate program, but it has its own doctorate program.

The thematic packages, organized by modules that make the formation period within the Master of Marine Sciences: Oceanography and Management of the Marine Environment are the following:

Levelling (if judged necessary depending on previous formation)
Transversal (obligatory for both specialities)
Marine Biodiversity (esp. Oceanography)
Advanced Marine Geology (esp. Oceanography)
Physical Oceanography (esp. Oceanography)
Chemical Oceanography (esp. Oceanography)
Biological Oceanography (esp. Oceanography)
Ecology and Management of Coastal Ecosystems (esp. Manag. of the Marine Environment)
Conservations and Management of Marine Biodiversity (esp. Manag. of the Marine Environment)
Marine Geophysics (esp. Manag. of the Marine Environment)
Costal Engineering (esp. Manag. of the Marine Environment)
Coastal Management (esp. Manag. of the Marine Environment)
Introduction to Research (Master Research Report)

No specific itineraries are defined. Admission to the doctorate program will be possible if the above-mentioned general requirements are fulfilled. In any case, it will be necessary that the student has passed the Introduction to Research (Master Research Report) module of the formation period.

The thematic packages that make the formation (training) period of the Master of Economy and Management of Fisheries are not defined yet, ad this Master is due to start in 2008-09 academic year.

Complements específics de formació en recerca, a cursar en màsters de la UB, que es considerin necessaris i activitats que hauran de seguir-se durant el període de recerca (seminaris, cursos metodològics o altres activitats formatives programades)

In addition to the general access requirements established by the regulation in force, academic qualifications, research and professional experience, documented knowledge of third languages, and other merits could be taken into account

The commission of the program shall verify that the candidate has the appropriate formation (training) to start the research period, independently of the fulfilling of the formal access requirements and, wherever judged necessary, shall define the complementary formation required, which could be selected amongst the postgraduate courses offered by UB. Persons holding a degree diploma, involving a duration of at least 300 credits following the EU rules, could be accepted in the research period of the doctorate program, though the admission document will make explicit the formation (training) complements judged necessary to prepare the Doctorate Thesis, which will be followed within a university master of UB, and must be passed before the presentation of the Doctorate Thesis project.

Specific and individual research training itineraries will be organized according to the two specializations in the Master of Marine Sciences (Oceanography, and Management of the Marine Environment), which will include the organization of thematic seminars and workshops related to the topics defined in the training modules of the Master of Marine Sciences, programmed visits and participation in coastal and sea-going activities (research cruises and other).

Specific and individual training itineraries preparatory for the professional world and other transversal skills will be organized according to the two specializations in the Master of Marine Sciences (Oceanography, and Management of the Marine Environment), which will include the organization of thematic seminars and workshops related to the topics defined in the training modules of the Master of Marine Sciences, programmed visits and participation in coastal and sea-going activities (research cruises and other).

Offered research lines, teachers and researchers and registering centers

[+] 100551 Algología Marina

[+] 100585 Ecología química de organismos marinos

[+] 100597 Ecología marina y oceanografía biológica

[+] 100665 Geohàbitats marinos

[+] 100664 Cartografía submarina

[+] 100666 Geotecnia y mecánica de suelos marinos

[+] 100118 Geociencias Marinas

[+] 100119 Vertebrados marinos

[+] 100120 Geología ambiental

[+] 100122 Biodiversidad marina

[+] 100124 Recursos vivos

[+] 100126 Recursos minerales y energéticos

[+] 100127 Calidad ambiental marina

[+] 100475 Geología Sedimentaria

[+] 100479 Genética de organismos marinos

[+] 100480 Reconstrucciones climáticas (Paleoceanografía y Paleoclimatología)

[+] 100481 Investigación polar

[+] 100482 Geología y geofísica marinas aplicadas

General information

Procedimientos para la admisión y el seguimiento del proyecto de tesis

The admission of the Thesis project shall imply the stabilisation of the relation started with the first registration in the Doctorate Program, which has resulted in a fruitful tuition.

The project of the Doctorate Thesis must be presented to the Monitoring Commission of Doctorate Thesis during the first year, which shall decide on its admission or rejection.

The Doctorate Program has nominated the Monitoring Commission of Doctorate Thesis, as approved by the Commission of the Doctorate Program, which consists of the following members:

- Dra. Montserrat Vidal (Fac. of Biology, montsevidal@ub.edu),
- Dr. Antoni M. Calafat (Fac. of Geology, antonicalafat@ub.edu),
- Dr. Jordi Rull (Fac. of Pharmacy, jordirull@ub.edu),
- Dr. Ramón Franquesa (Fac. of Economy Sciences, franquesa@ub.edu).

A staff member of Coastal and Maritime Engineering of the Polytechnics University of Catalonia, UPC, will add to the above commission, jointly with two external evaluators to be selected amongst a panel of experts. The duties of this Monitoring Commission are as follows:

- To approve the acceptance of the Thesis project during the first year
- To monitor year by year the progresses made and the most significant results achieved within each Thesis project
- To give advice on quality control subjects to the Commission of the Doctorate Program, the Coordinator, and the teaching and research staff involved in the program
- To report on the results of the evaluations to the Commissions of Doctorate of the involved centres (faculties of Biology, Geology, Pharmacy and Economy Sciences)

The Monitoring Commission shall evaluate on a yearly basis the advances and most relevant results of each Thesis project through the presentation of a report prepared by the doctorate student till the time when the Thesis defence is proposed to and accepted by the centre Commission of Doctorate. The report to be prepared by the Doctorate student, which must include the approval signature of the Thesis director, shall include:

- A description of the advancement status of the research work
- A description of the most relevant results achieved so far

For Doctorate students formally holding an official grant to carry out the Doctorate Thesis the report will be the same document submitted as the annual grant's report.

Each academic year, a plenary session of the doctorate program staff and representatives of program doctorates and current students will be organized. The session will be devoted to evaluate the quality of the research program and the complementary activities, and to establish, if required, reinforcing and improvement measures.

Procesos administrativos (plazos y procedimientos de preinscripción) y otros datos de interés para el estudiante sobre el programa.

Those established by the University of Barcelona administration.

Procedimientos para que el estudiante, si lo desea, pueda formular reclamaciones en relación con el programa.

Directly to the Monitoring Commission of Doctorate Theses of the Doctorate Program, either in written (e-mail or letter addressed to any of the members of the Monitoring Commission), or by requesting also in written (e-mail or letter) a personal interview to any of the members of the Monitoring Commission, though it would be preferable sending the request to the Monitoring Commission member whose speciality is closest to the Thesis topic. A copy of the document or documents must be sent in parallel to the Program's Coordinator.

When pertinent, the Monitoring Commission and the Program Coordinator will agree and fix date, time and place to proceed with the requested interview, of which the student will receive written notification (e-mail) sufficiently in advance. According to the judgement of the Program Coordinator and the Monitoring Commission, and also depending on the character of the subject to deal with, the Coordinator himself, one or more members of the Monitoring Commission, and other staff members of the Program or external experts could be invited to participate in the interview. The student must provide a live electronic address at the very start of the procedure where he / she could be contacted at any time.

The composition and e-mail addresses of the members of the Monitoring Commission of Doctorate Theses could be found in section 4. The Program Coordinator is Prof. Miquel Canals (Fac. of Geology, miquelcanals@ub.edu).