

Facultade de Bioloxía
Universidade de Vigo

Faculty of Biology

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~ FACULTY OF BIOLOGY ~

The Faculty of Biology of the University of Vigo is a young institution where the studies in Biology are taught since 1990, date when the University of Vigo was founded. In the beginning the Faculty taught the studies of Bachelor's degree in Biology, made by 17 promotions of graduates. Since 2009 and following the guidelines of the European Higher Education Area (EHEA), the Degree in Biology started to be taught. Currently this degree is fully consolidated and it has a high social demand. The Faculty also offers many master's degrees that are complemented with a variety of biology PhD programmes offered by the University of Vigo.

Located in the University Campus *Lagoas-Marcosende*, in the city of Vigo, the Faculty of Biology has modern infrastructures and technologies in experimental classrooms and laboratories. It has a large teachers staff, most of them doctors, who make the research a excellent complement for teaching.

Our faculty has a seal of quality given by the Agency for Quality of the Galician University System because of the implementation of the Internal Quality Guarantee System.



Centro certificado
FIDES-AUDIT

Departments assigned to the Faculty

- Department of Functional Biology and Health Sciences
- Department of Plan Biology and Soil Sciences
- Department of Biochemistry, Genetics and Immunology

External departments that collaborate with teaching

- Department of Ecology and Animal Biology
- Department of Applied Physics
- Department of Organic Chemistry
- Department of Analytic and Food chemistry
- Department of Marine Geosciences and territorial planning
- Department of Biostatistics and Operational Research
- Department of Mathematics
- Department of Engineering Design

Degree in Biology

Brief description of the degree

Area: scientific
Duration: 4 years

Credits ECTS: 240
Vacancies: 75 for the 1st year

■ Study Programme

	1st year	2nd year	3rd year	4th year
1st Sem.	Evolution Geology Physics of the biological processes Chemistry applied to biology Mathematics applied to biology			
2nd Sem.	Biostatistics Laboratory Basic Techniques Land and Remote Sensing Basic Techniques Land, Aquatic environment and Weather			
1st Sem.	Biochemistry Botany I: Algae and fungus Animal and Plant Cytology and Histology I Zoology: Invertebrates non-arthropod Microbiology			
2nd Sem.	Biochemistry II Botany: arquegoniadas Animal and Plan Cytology and Histology II Zoology II: Invertebrates arthropods and chordata Genetics I			
1st Sem.	Ecology I Animal Physiology I Plant Physiology I Genetics II Advanced Techniques in Biology			
2nd Sem.	Ecology II Animal Physiology II Plant Physiology II Microbiology II Immunology and Parasitology			
1st Sem.	Clinical analysis and diagnoses Environmental analysis and diagnoses Food analysis and diagnoses Animal production Plant production Microbial production Evaluation of the Environmental Impact Biodiversity: Management and Preservation Management and Preservation of Spaces Pollution Management and Control of Quality			
2nd Sem.	External Internships Writing and Execution of Projects End-of-degree Project			

■ Specialized education on Biology

The Degree in Biology provides a specialized and focused education in the study of living beings and their relationship with the environment where they live. It is oriented for exercising the profession of biologist.

The students of the Degree acquire the necessary knowledge for recognising and identifying living organisms, their levels of organization and the biological diversity: the concept and origin of life, the chemical structure of living organisms, the genetic and mechanism of heredity, the biodiversity and the evolution. The students learn how to recognise and identify the functions of the organisms and the mechanisms related to metabolism, cell signalling and those that allow the regulation and integration of the physiological processes.

Additionally, the students are capable of identify and understand the processes of adaptation of living beings to their environment, including the physical media, the structure and dynamic of populations and communities and the exchange of substance and energy. Finally, they learn how to employ statistical and computer tools and they develop the ability of analysis and critical reasoning by the approach of solution to problems and cases with a biological basis. Throughout their studies, the students encourage their capacity of exposition, task organization and collaborative work.

■ Research and professional orientation

The degree of Biology enables the students the education in a practical area, where they apply the acquired knowledge to fields where normally they develop their professional activity: health (biomedicine), industry and productive services (biotechnology), new technologies (bioinformatics), environment (biodiversity and environmental management and control) and processes of quality control.

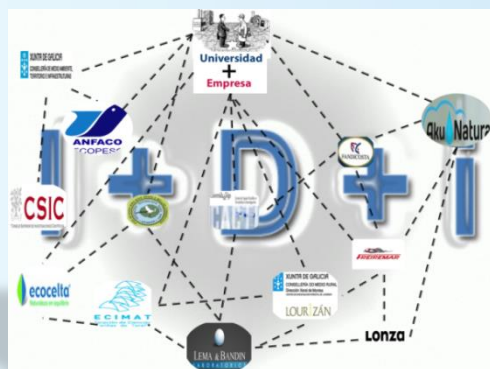
The oriented education eases the labour integration of the biologist who works and researches in strategic sectors and with a great social projection. The wide basic and updated education of the biologist also enables its dedication to research tasks, scientific dissemination and related to education and teaching.

■ External Internships

Curricular external internships are oriented to complete and strengthen the competences associated to the degree. They are made in a labour and real professional area related to some of the fields of biology, under the supervision of a tutor in the collaborative entity and an academic tutor in the Faculty of Biology. This subject, which is optative, provides a vision of the biologist profession to students, allowing a direct contact between the faculty and the professional environment.

The faculty also offers the possibility of make extracurricular external internships, similar to curricular, but in an out-of-school time. The students, with these internships, can complement their education in companies of their interest related to the degree.

Nowadays, there are agreements with more than 50 companies, institutions and public and private organisms in the different areas where the profession of biologist is certified.

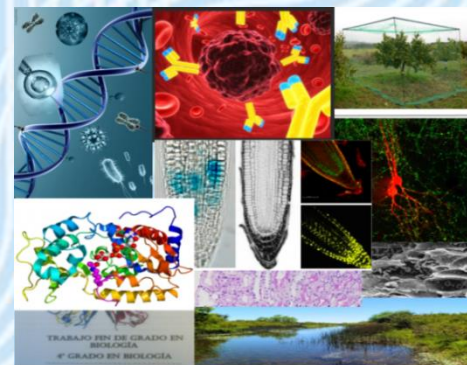


■ End-of-degree Project

The “**End-of-degree Project**” has as objective that the students implement the knowledge, competences and abilities acquired along their academic education.

The subject End-of-degree Project implies the execution of an individual project related to some of the multiple areas of the biologist labour environment, always under the supervision of a academic tutor.

This subject is made in laboratories of the Faculty or in companies and other external institutions. The students present their final project by means of a written memory that orally defends in front of the examining board.



■ Students support and orientation

The Faculty has completely implemented a Tutorial action plan which claims all the students a constant support from an academic tutor that guides and advises them during their stay in the centre.



Postgraduate Studies

To complete the education of graduate students, the Faculty of Biology has a wide offer of postgraduate studies. Likewise, these degrees allow to update and improve the education for professionals who are working in the area of Biological Sciences.



Students receive an advanced education, either for their insertion in the labour market or for their access to a PhD programme.

Nowadays, the Faculty of Biology has 5 official master's degree which includes a wide variety of contents that allow to complement the education of a specialized biologist. Additionally, it offers a master's degree in teaching training that prepares for the performance of the teaching function in secondary and vocational education.



▪ *Master's degree in Advanced Biotechnology*

Interuniversity Master's degree (UVigo-UDC)

It provides the students an advanced education in Biotechnology, with a multidisciplinary and specialized character. The objective is dual: on one hand, it prepares professional for the biotechnology industry and/or update and improve the knowledge of professionals working in this area; on the other hand, it prepares new researchers for joining to research teams in public centres and companies.

<http://masterbiotecnologiaavanzada.com/>

Nº of vacancies: 30 (15 in UVIGO and 15 ni UDC)

Type of teaching: *Face-to-face*

Regularity of the offer: *annual*

Duration: 90 ECTS

▪ *Master's degree in Marine Biology*

Interuniversity Master's degree (UVigo- UDC- USC)

In its professional orientation, the master seeks the education of new specialists and the update of professionals of the sector, in evaluation, management and the right exploitation of the maritime living resources for guaranteeing their economical, biological and environmental sustainability. In its academic orientation it studies the education of teaching and research staff in the field of Marine Biology. The external internships in institutions and companies are oriented to the students labour preferences and they constitute a professional stimulus with a demonstrated added value.

<http://masterbiologiamarina.uvigo.es/>

Nº of vacancies : 30 (10 in UVIGO, 10 in USC and 10 in UDC)

Type of teaching: *Face-to-face*

Regularity of the offer: *annual*

Duration: 90 ECTS

▪ **Master's degree in Aquaculture**

Interuniversity Master's degree (UVigo- USC- UDC)

It provides the students an advanced, specific and multidisciplinary education oriented to an academic, research and professional education in Aquaculture. The students acquire knowledge, skills and abilities that will allow them to design and carry out the research in the field of aquaculture, manage and control continental and marine facilities, evaluate their environmental impact and answers the i+D+i necessities of the sector by the implementation of strategies for the future development of the industry.

<http://www.usc.es/macui/g/>

Nº of vacancies: 30 (10 in UVIGO, 10 in UDC and 10 in USC)

Type of teaching: *Face-to-face*

Regularity of the offer: *annual*

Duration: 90 ECTS

▪ **Master's degree in Neuroscience**

Interuniversity Master's degree

The Master's degree in Neuroscience expects to prepare researchers who collaborate in the future to the resolution of a great number of diseases related to the nervous system.

It is a interdisciplinary master which contemplates a basic and clinical speciality. The first one is oriented to the comprehension of the nervous system function. The second one is oriented to the research of pathologies of the system such as Parkinson and Alzheimer among others.

http://www.usc.es/gl/titulacions/masters_oficiais/neurosci/

Nº of vacancies : 50 (10 in UVIGO, 30 in USC and 10 in UDC)

Type of teaching: *Face-to-face*

Regularity of the offer: *annual*

Duration: 120 ECTS



▪ **Master's degree in Teaching Training in ESO, Baccalaureate, Vocational Education and Language Education**

Interuniversity Master's degree Mestrado

Its mission is to educate professionals capable of develop their work in the fields of orientation and teaching.

It is a necessary degree to be a secondary, A levels and vocational education teacher both in public and private centres.

<http://mpe.uvigo.es/index.php?lang=es>

Nº of vacancies: 280 (20 for Biology)

Type of teaching: *Face-to-face*

Regularity of the offer: *annual*

Duration: 60 ECTS



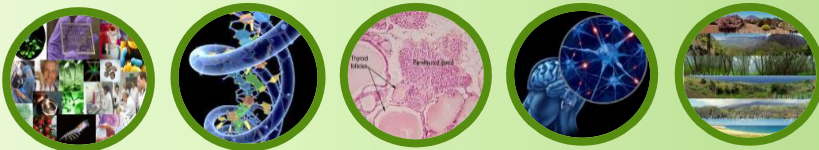
PhD Studies

PhD studies are the final step of the academic education and they lead to obtaining the degree of doctor.

The educational structure of the PhD programmes includes the realization of courses and a stage of research where the student develops the doctoral thesis.

In the University of Vigo, PhD programmes depend on the administration of the Doctoral International School, but they maintain a strong connection with the centres where the educational and research activities are developed.

Nowadays, different PhD programmes keep a tight bond with the Faculty of Biology, all of them with a strong orientation to research of processes related to biology and its use.

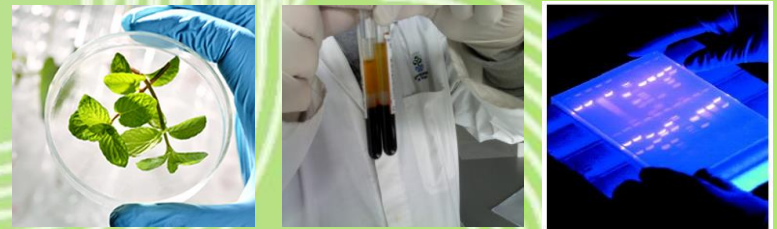


- ***Advanced Biotechnology***
- ***Methodology and Applications in Sciences of Life***
- ***Neuroscience and Clinical Phycology***
- ***Endocrinology***
- ***Nanomedicine***
- ***Marine Sciences, Technology and Management (*of the Sea)***

Research Activity

Research constitutes an important activity in the Faculty of Biology. The research activity is accomplished by different Research Groups where researchers who work in different areas of biology are integrated.

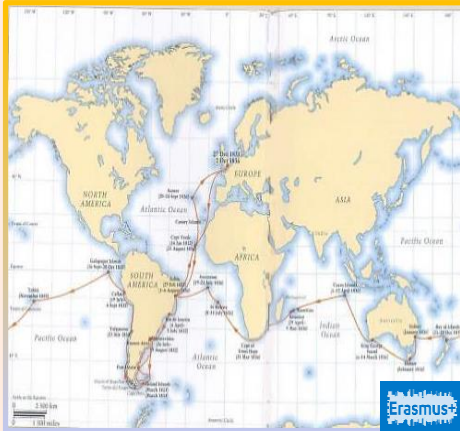
The Faculty has laboratories for the different specialities that are supplied with modern scientific-technological equipment that makes possible the research at high level. Additionally, research groups established in the in the faculty have the scientific support of other centres of the University of Vigo, such as the Scientific and Technological Research Assistance Centre (CACTI), the Toralla Marine Science Station (ECIMAT) and the Biomedical Research Centre (CINBIO). It is for that reason that the students who access to the Faculty of Biology are integrated in a scientific space where an excellent research with great national and international projection is made.



Mobility Programmes

Erasmus plus:

It consists in the realization of a study period (one semester or an entire year) in a university of another European country with total academic recognition of the studies made.



Erasmus internships:

Realization of a internship period (among 3 and 12 months) in companies, education centres, research centres and other organizations of another European country.

SICUE:

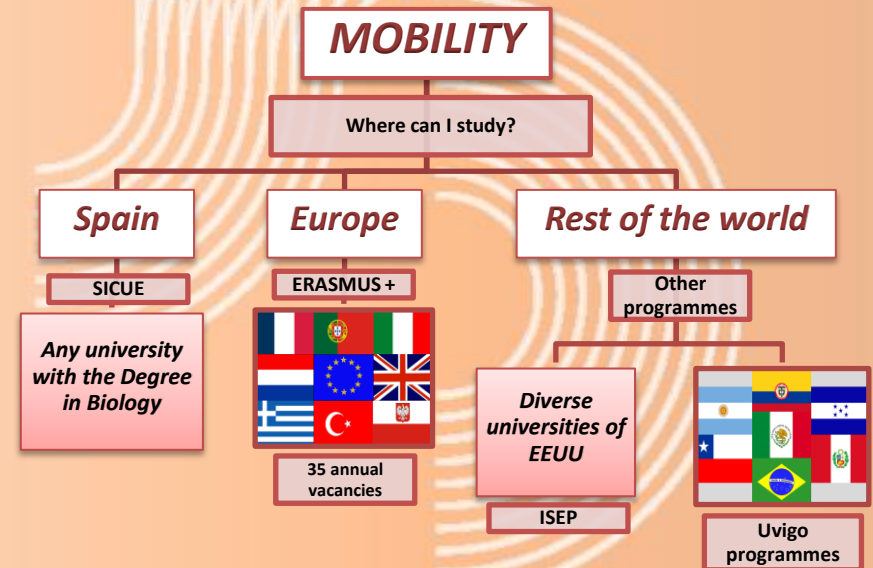
Mobility programme between Spanish university centres. It allows the realization of a study period (a semester or an entire year) in another Spanish university with total academic recognition.



One of the priorities of the Faculty of Biology is to promote mobility for our students. This means that the faculty participates actively in the official mobility programmes, essentially in the field of the SICUE and Erasmus programmes.

For the SICUE programme, the management work in the Faculty is in charge of the Vice-dean of External Relationships. The students who embrace this programme have to sign an academic agreement where there are established the subjects the students will have in the destination university and the subjects of the University of Vigo that will be recognised.

In the case of the Erasmus programme, the general management of the programme is carried out by the International Relationships Office (ORI), in collaboration with the Vice-dean of External Relationships. The students who embrace this programme have to sign the learning agreement before starting the exchange. In this agreement are established the subjects the student will have in the destination university and the subjects of the university of Vigo that will be recognised.



Teaching facilities and services

~ FACULTY OF BIOLOGY ~



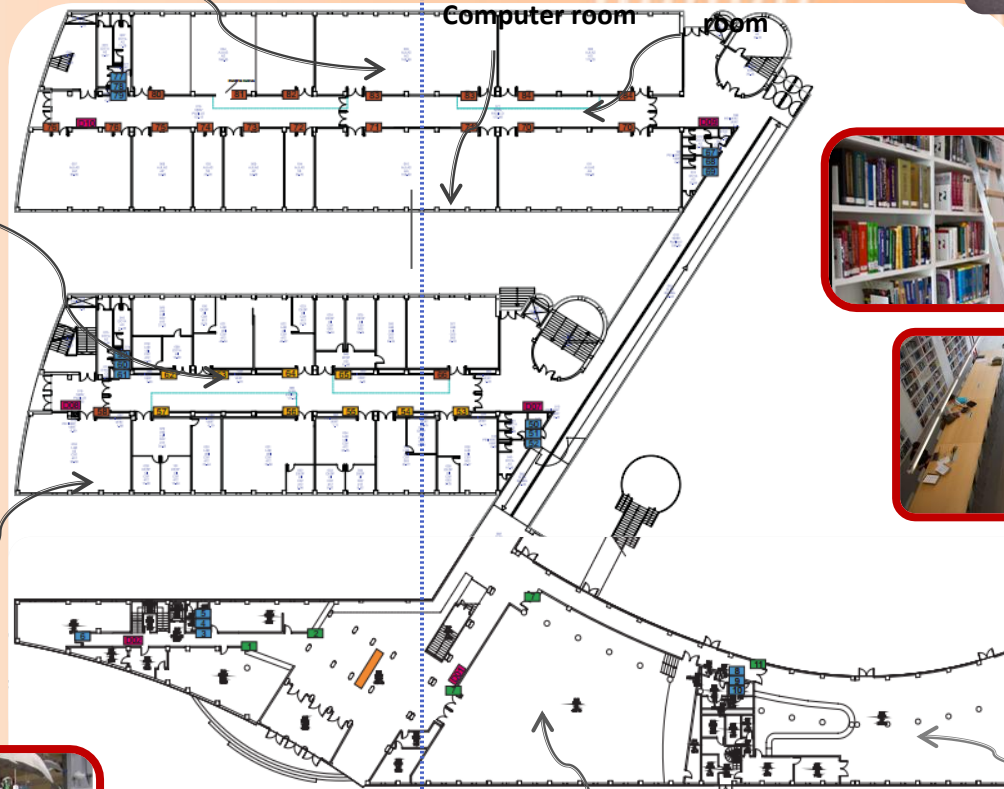
Teaching classrooms with projection equipment



Video conference room



Teaching laboratories equipped for each are of knowledge



Research laboratories of different specialities



Updated library with a modern reading and study room



Cafeteria and dining room in the centre



WiFi connection in the whole building



Assembly hall for more than 300 people