



PLAN DE ESTUDIOS OFERTADO EN EL CURSO 2023-24

Legend: [EN ALACANT](#) [EN BUNYOL](#)

Year	Credit	Subject	Requirement	Language	Notes
<b>FIRST YEAR</b>					
<b>COMMON SUBJECTS</b>					
1	6	CORE	ENGLISH I (60022)	English	
1	6	CORE	ENGLISH II (60023)	English	
1	6	CORE	ENGLISH III (60024)	English	
1	6	CORE	ENGLISH IV (60025)	English	
1	6	CORE	ENGLISH V (60026)	English	
1	6	CORE	ENGLISH VI (60027)	English	
1	6	CORE	ENGLISH VII (60028)	English	
1	6	CORE	ENGLISH VIII (60029)	English	
<b>OPTIONALS</b>					
1	6	CORE	ENGLISH IX (60030)	English	
<b>SECOND YEAR</b>					
<b>COMMON SUBJECTS</b>					
2	6	COMPULSORY	ENGLISH (60031)	English	
2	6	COMPULSORY	ENGLISH (60032)	English	
2	6	COMPULSORY	ENGLISH (60033)	English	
2	6	COMPULSORY	ENGLISH (60034)	English	
2	6	COMPULSORY	ENGLISH (60035)	English	
2	6	COMPULSORY	ENGLISH (60036)	English	
2	6	COMPULSORY	ENGLISH (60037)	English	
2	6	COMPULSORY	ENGLISH (60038)	English	
2	6	COMPULSORY	ENGLISH (60039)	English	
2	6	COMPULSORY	ENGLISH (60040)	English	
<b>OPTIONALS</b>					
2	6	COMPULSORY	ENGLISH (60041)	English	
<b>THIRD YEAR</b>					
<b>COMMON SUBJECTS</b>					
3	6	COMPULSORY	ENGLISH (60042)	English	
3	6	COMPULSORY	ENGLISH (60043)	English	
3	6	COMPULSORY	ENGLISH (60044)	English	
3	6	COMPULSORY	ENGLISH (60045)	English	
3	6	COMPULSORY	ENGLISH (60046)	English	
3	6	COMPULSORY	ENGLISH (60047)	English	
3	6	COMPULSORY	ENGLISH (60048)	English	
3	6	COMPULSORY	ENGLISH (60049)	English	
3	6	COMPULSORY	ENGLISH (60050)	English	
<b>OPTIONALS</b>					
3	6	COMPULSORY	ENGLISH (60051)	English	
<b>FOURTH YEAR</b>					
<b>COMMON SUBJECTS</b>					
4	6	ENGLISH (60052)	ENGLISH (60052)	English	
4	6	COMPULSORY	ENGLISH (60053)	English	
4	6	COMPULSORY	ENGLISH (60054)	English	
<b>OPTIONAL SUBJECTS</b>					
4	6	OPTIONAL	ENGLISH (60055)	English	
4	6	OPTIONAL	ENGLISH (60056)	English	
4	6	OPTIONAL	ENGLISH (60057)	English	
4	6	OPTIONAL	ENGLISH (60058)	English	
4	6	OPTIONAL	ENGLISH (60059)	English	
4	6	OPTIONAL	ENGLISH (60060)	English	
4	6	OPTIONAL	ENGLISH (60061)	English	
4	6	OPTIONAL	ENGLISH (60062)	English	
4	6	OPTIONAL	ENGLISH (60063)	English	
4	6	OPTIONAL	ENGLISH (60064)	English	
4	6	OPTIONAL	ENGLISH (60065)	English	
4	6	OPTIONAL	ENGLISH (60066)	English	
4	6	OPTIONAL	ENGLISH (60067)	English	
4	6	OPTIONAL	ENGLISH (60068)	English	
4	6	OPTIONAL	ENGLISH (60069)	English	
<b>INTERNATIONAL</b>					
<b>ENGLISH WITH INSIGHT IN SPANISH</b>					
<b>ROUTE 1: MARINE SCIENCES</b>					
<b>OPTIONAL SUBJECTS</b>					
4	6	OPTIONAL	ENGLISH (60070)	English	
4	6	OPTIONAL	ENGLISH (60071)	English	
4	6	OPTIONAL	ENGLISH (60072)	English	
<b>ENGLISH WITH INSIGHT IN SPANISH</b>					
<b>ROUTE 2: MARINE AND COASTAL ENVIRONMENT</b>					
<b>OPTIONAL SUBJECTS</b>					
4	6	OPTIONAL	ENGLISH (60073)	English	
4	6	OPTIONAL	ENGLISH (60074)	English	
4	6	OPTIONAL	ENGLISH (60075)	English	

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**AIMS**

The aim of the Degree in Marine Sciences is to produce professionals capable of

- carrying out research in the different areas of the marine sciences;

- providing the authorities and businesses with advice and consultancy on marine resources, environmental issues, environmental impact and other matters within the scope of their competence;

- training future scientists and technicians.

Accordingly, the Degree in Marine Sciences qualifies graduates to work in all areas related with the marine sciences, including scientific and technical development, using both basic and applied approaches.

This degree also qualifies future graduates to work in oceanography, at both basic and applied levels in a range of environments.



- [Description of the degree course](#)
- [Distribution of credits per subject](#)
- [General description of the course programme](#)
- [Optional subjects and routes](#)

#### CREDIT STRUCTURE OF THE DEGREE COURSE

Subjects on the Degree Course in Marine Sciences, each worth 6 European ECTS credits, are organised into semesters. Students are required to take 5 subjects each semester, to complete 30 credits per semester and 60 credits per year, for a total of 240 credits over four years. In order to make the course compatible with other activities, students are allowed to take a part-time degree consisting of 20 credits per academic year.

#### DISTRIBUTION OF CREDITS PER SUBJECT TYPE

Subject type	Credits
Core	60
Compulsory	120
Optional	30
Work experience (obligatory)	6
Final Project	18
<b>Total credits</b>	<b>240</b>

#### GENERAL DESCRIPTION OF THE COURSE PROGRAMME

The Course Programme is divided into four modules: Core, Compulsory, Complementary and Optional.

**a) Core Module:** The core module is taken in the first year and is worth 60 credits. 42 of these form core courses in the area of the Sciences, including the disciplines of Mathematics, Physics, Chemistry, Biology and Geology, whilst 12 form core courses in the area of the Health Sciences, and comprise the disciplines Biochemistry and Statistics. In addition, the compulsory cross-disciplinary core course, "Introduction to Research in Marine Sciences", is worth 6 credits (1) and is aimed at enabling students to acquire practical proficiency in searching for and handling biological information, cross-disciplinary skills such as IT, oral and written communication and reading documents in English (literary cross-disciplinary skills at the University of Alicante), and teamwork. The course described comprises a total of 10 subjects, each worth 6 credits. Core courses in the area of the Sciences are taught in the first year, with Mathematics, Physics, Chemistry, Biology and Geology being taught in the first semester (20 ECTS). In the second semester,

**b) Compulsory Module:** The Compulsory Module is taught in the second, third and fourth years (semesters 4-6). The module is divided into 10 courses, with a total of 18 subjects.

- Four courses are shared with the Degree in Biology (with a total of 36 ECTS). These are Zoology (12 ECTS), Botany (12), Ecology (6), and Microbiology (6).
- Six courses specific to the area of Marine Sciences (with a total of 36 credits), which include Biological Oceanography (18), Physical Oceanography (12), Marine Geology (12), Marine Chemistry (18), Applied Statistics (6) and Applied Marine Sciences (24).

All subjects are worth 6 credits and comprise the theoretical and practical contents of each course. Credits for practical (laboratory, sea, computer, etc) are allocated differently for each of the 10 courses.

**c) Complementary Module:** this module comprises the subject, "Marine Science Project" and is worth 6 ECTS. It reflects the recommendation that professionals in any branch of the Sciences, and especially those undertaking projects, should have taken a subject concerning projects.

**d) Optional Module:** The Optional Module consists of three optional course routes:

- i) **Marine Resources route;**
- ii) **Marine and Coastal Environment route;** and
- iii) **optional courses not accredited by any route.**

These three courses, each worth 24 ECTS, comprise a total offer of 12 optional subjects, including Work Experience, each worth 6 credits. The optional courses mainly comprise applied subjects and are aimed at complementing the education of future graduates by offering an insight into the Marine Sciences as applied to different fields. Students may choose four optional subjects from either route plus one subject form among those not accredited to either in order to complete the 30 optional credits. Another possibility is not to choose either route and simply take those subjects they consider of most interest.

8 subjects are offered in semester 7, of which students must choose 4, whilst in semester 8 students must choose one subject from among the 3 offered. The subject, "Work Experience" may be undertaken by students during either of these two semesters. Subjects will be assigned to semesters 7 and 8 on an annual rotation basis. In semester 8, students are required to take the compulsory course "Marine Science Project", worth 6 credits, and carry out their Final Project, worth 18 credits.

**Work Experience:** Work experience is worth up to 6 optional credits. A homework collaboration agreement has been reached between the University and a series of companies and institutions, offering students the possibility of working in companies and public and private institutions in the field of Marine Sciences, providing them with a first contact with the working world and increasing their employment prospects.

The Course Programme proposes the following optional work experience modalities:

- Work experience related to the Final Project: Successfully completed work experience projects are worth a total of 6 optional credits.
- Work experience unrelated to the Final Project: 6 optional credits may be taken as work experience, after which students may continue with one or two practical blocks from the Final Project, totalling a maximum of 18 ECTS.

In this regard, students may take up to 12 work experience credits related exclusively to the practical blocks of the Final Project. In this case, the Degree Supplement will specify that work experience has comprised part of the student's Final Project.

However, as specified below, students may complete or extend their work experience period providing the work undertaken can be used in the Final Project.

**Final Project:** The Final Project, which is the final phase of the Course Programme, is worth a total of 18 ECTS credits, in compliance with the requirements of a possible Eurabachelor in Marine Sciences. The Final Project is divided into three blocks, each worth 6 ECTS. Two of these blocks are practical, while the other is written. Within the two practical blocks, students may carry out a range of activities, including work at sea (practicum), data collection and analysis, bibliographical research, laboratory investigation, etc. Before evaluation their final projects, students must show academic aptitude writing them in a foreign language to B1 level.

#### OPTIONAL SUBJECTS AND ROUTES

Students may choose four optional subjects from either route and one subject not accredited to either in order to complete the 30 optional credits. Another possibility is not to choose either route and simply take the assignments they consider of most interest. 8 subjects are offered in semester 7, of which students must choose 4, whilst in semester 8 students must choose one subject from among the 3 offered. Work Experience may be undertaken by students during either of these two semesters. Subjects will be assigned to semesters 7 and 8 on an annual rotation basis.

SUBJECT	TYPE	ECTS
<b>MARINE RESOURCES</b>		
SEA SURVIVAL INSTRUMENTS	OP	6
MANAGEMENT AND PRESERVATION OF LIFE MARINE RESOURCES	OP	6
APPLIED PARASITOLOGY AND MARINE MICROALGAE/PHYCOTOLOGY	OP	6
<b>MARINE RESEARCH TECHNIQUES</b>		
<b>MARINE AND COASTAL ENVIRONMENT</b>		
COASTAL AND MARINE ENVIRONMENT	OP	6
INTRODUCTION TO MARICULTURE	OP	6
RECREATION AND MANAGEMENT OF THE COASTAL ZONE	OP	6
ASSESSING THE MARINE AND COASTAL LANDSCAPE AND DEVELOPING ENVIRONMENTAL POLICY	OP	6
<b>WORKING EXPERIENCE</b>		
BIOCHEMISTRY EXPERIMENTAL COURSE AND MOLECULAR BIOLOGY	OP	6
EXPERIMENTAL PHYSICS	OP	6
EXPERIMENTAL CHEMISTRY	OP	6
WORK EXPERIENCE	OP	6

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**LANGUAGE REQUIREMENT IN A FOREIGN LANGUAGE**

Students who study an undergraduate degree at the University of Alicante must complete a minimum level of B1 in a foreign language in B1 is recommended) in order to obtain the diploma.

The required language level is in accordance with the Common European Framework of Reference for Languages.

The language accreditation requirement can be obtained previously or at any time during university studies. However, the language requirement will be necessary in order to assess the final year project.

The different ways of obtaining such language requirement can be consulted in the additional information in this section.

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**LANGUAGE TEACHING COMPETENCE CERTIFICATE**

Students who want to take a course in the university teaching their studies are recommended to obtain the teaching competence certificate (certificate under foreign languages).

The certificate can be obtained by taking specific courses in your university studies or by taking the BA teaching competence course in Valencià, German, French and English.

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**FINAL YEAR PROJECT (TFG)**

All the official undergraduate degrees must be completed by preparing and defending a final year project, which must be done in the final phase of the studies and be subject to the assessment of competence associated to the degree.

The final year project must be an original, independent and personal work. The evaluation of it may be individual or coordinated. Each student will prepare the project under the supervision of a tutor. Defending students to show the required content in an integrated way, as well as the required competences associated to the undergraduate degree.

In order to register for the final year project, students must comply with the requirements established in the "Regulation for coordination studies for students registered in undergraduate degrees at the University of Alicante". Among the requirements established to be able to register in the final year project, a minimum of 100 credits must be passed in undergraduate degrees with a total of 240 credits, and a minimum of 220 credits in undergraduate degrees with a total of 300 credits or more.

In order for the final year project to be assessed in B1 level of a foreign language (B2 is recommended) must be confirmed.

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**PROFESSIONAL PROFILES**

Professions for which the degree qualifies its holder: Oceanographer, Marine Scientist.

These professional profiles have been drawn up from information obtained from graduates and employers, as well as from the professional experience of the project work group and the University community, as set down in the White Paper. On the basis of this information, along with further information obtained from the Official State Gazette (BOE), CSC and documents from Associations of Marine Sciences Graduates, the Degree has been designed to be as broad-based as possible, having as its fundamental aims those of providing graduates with a basic and applied knowledge in Marine Sciences and preparing them for professional practice, based essentially on the professional profiles with their respective professional scopes which are representative of a Degree in Marine Sciences.

There are career opportunities for graduates in Marine Sciences in all sectors, from the primary sector to the industrial and service sectors, and including education and research. To meet the demand from businesses and institutions, the following profiles have been established:

- **Professional profile:** Graduates should possess the necessary training required by companies in the primary sector (fishing and aquaculture, oceanography), industry, services and the administration (preservation, environmental impact, biomarkers, coastal planning and management, etc.). In the field of business, graduates may work as oceanographers but also full executive and management roles in Marine Sciences-related areas.
  - **Teaching and research:** Some graduates find careers in teaching. Under the current system, graduates are required to complete their training with a Master's Degree in Education in order to work as Secondary School Teachers. However, the Degree in Marine Sciences is designed to provide graduates with the necessary skills for this function. Moreover, research in certain scientific fields is becoming increasingly important, both in public centres (IIS, CSIC, OPN, etc.) and in companies with research departments.
- On the basis and in accordance with courses consulted, the following general aims have been established for the University of Alicante Degree in Marine Sciences:
- Provide students with a scientific and technical training in line with current scientific methodologies, along with the knowledge and skills to their specialization in Marine Sciences or other multidisciplinary areas.
  - Involve students in the learning of Marine Science, enabling them to assess their theoretical and practical aspects and train them for professional work.
  - Provide knowledge acquisition, both basic and applied to the marine environment, practical skills and attitudes for professional practice.
  - Generate in students the ability to assess the responses of marine systems in the context of environmental, economic and social.
  - Getting graduates adequately manage scientific and technical information, to produce technical reports and scientific papers and defend to an audience.
  - To train graduates for their integration in the labor market, in areas related to the responsibilities of the degree.

Summary of professional profiles and skills of Graduates in Marine Sciences:

Professional profile	Skills
<b>Marine Resources</b>	<ul style="list-style-type: none"> <li>Inventory, census and monitoring of marine life forms</li> <li>Detection and control of diseases among marine species</li> <li>Preservation and transformation of marine foodstuffs and other products of interest</li> <li>Sustainable management of renewable and non-renewable resources</li> <li>Fishing evaluation and management</li> <li>Advisory services for zoos, museums and other scientific and cultural facilities related to the marine environment</li> <li>Recovery of marine species</li> </ul>
<b>Oceanography</b>	<ul style="list-style-type: none"> <li>Exploring and modeling physical, chemical, geological and biological processes in the oceans</li> <li>Atmosphere-ocean interaction</li> <li>Global climate change</li> <li>Multi- and inter-disciplinary studies of ocean processes over a range of space and time scale</li> <li>Design and development of oceanographic campaigns and experiments</li> </ul>
<b>Management and planning of marine and coastal environments</b>	<ul style="list-style-type: none"> <li>Planning and preservation of coastal areas</li> <li>Design of marine infrastructure projects</li> <li>Management of natural spaces and protected marine areas</li> <li>Consultancy in matters of environmental legislation</li> <li>Environmental impact studies and assessment</li> <li>Restoration of coastal and marine spaces</li> <li>Assessment and monitoring of compliance with marine and coastal environmental standards applicable to industry</li> <li>Marine pollution, water quality and sediments</li> </ul>
<b>Teaching and research</b>	<ul style="list-style-type: none"> <li>Teaching at different levels, organizing social awareness campaigns, dissemination, etc.</li> <li>Design, preparation and teaching of courses on the marine environment to businesses and the authorities</li> <li>Management of marine-related leisure and tourist activities</li> <li>Capacity to undertake scientific studies in a range of oceanographic field</li> <li>Research at universities and private and public research bodies</li> </ul>
<b>Administration and business</b>	<ul style="list-style-type: none"> <li>Technical assistance and technical reports for businesses</li> <li>Improvement plans for industries related to the marine environment</li> <li>Technicians at all levels (European, national, regional, local) of the activities relating with marine and coastal environments</li> </ul>



**IMPLEMENTATION**

Timescale for the implementation of the new Degree in Marine Sciences

Academic Year	Implementation of the new Degree in Marine Sciences (2024)	Phasing out of the former Degree in Marine Sciences (Ciencias)
2024-2025	1 <sup>st</sup> Year	-
2025-2026	2 <sup>nd</sup> Year	-
2026-2027	3 <sup>rd</sup> Year	-
2027-2028	4 <sup>th</sup> Year	4 <sup>th</sup> Year
2028-2029	-	5 <sup>th</sup> Year

\* This refers to the course no longer being taught. However, students are entitled to sit two annual exams in the two years following the implementation of the new Degree course (grade) in the corresponding course.

CREDIT EQUIVALENCE BETWEEN THE CURRENT PROGRAMME AND THE NEW DEGREE IN MARINE SCIENCES

Former degree in Marine Sciences (Licenciatura)	New degree in Marine Sciences (Grado)
Apiculture (9 credits)	Apiculture (9 credits)
Systems Analysis (6 credits)	Systems Analysis (6 credits)
Scientific Diving (7.5 credits)	Scientific Diving (7.5 credits)
Marine biology (6 credits)	Marine biology (6 credits)
Marine ecology (6 credits)	Marine ecology (6 credits)
Economics of Marine Resources (4.5 credits)	Projects (6 credits)
Legislation (4.5 credits)	Statistics applied to Marine Resources (6 credits)
Applied Statistics (9 credits)	Statistics applied to Marine Resources (6 credits)
Exploitation of Live Marine Resources (4.5 credits)	Fisheries biology (6 credits)
Biology of Exploitable Marine Species (6 credits)	Fisheries biology (6 credits)
Marine Geology and Geology (6 credits)	Geological oceanography (6 credits)
Geographical Management of the Fourth Coast (6 credits)	Coastal Planning and Management (6 credits)
Evaluating Environmental Impacts (6 credits)	Evaluation of the Coastal landscape and Environmental Impacts (6 credits)
Evaluation of Coastal and Marine Landscapes (6 credits)	Evaluation of the Coastal landscape and Environmental Impacts (6 credits)
Sea Water Engineering (6 credits)	Sea Water Engineering (6 credits)
Coastal Engineering (4.5 credits)	Coastal and Offshore Engineering (6 credits)
Marine Fisheries (4.5 credits)	Marine Fisheries (6 credits)
The Marine Environment and Pollution (18 credits)	Marine Pollution (6 credits)
The Marine Environment and Pollution (6 credits)	Biological Oceanography (6 credits)
Oceanographic Methods and Techniques (3 credits)	GIS and Remote Sensing (6 credits)
Navigation and Location (7.5 credits)	GIS and Remote Sensing (6 credits)
Physical Oceanography (6 credits)	Physical Oceanography (6 credits)
Chemical Oceanography (6 credits)	Chemical Oceanography (6 credits)
Management and Preservation of Live Marine Resources (7.5 credits)	Management and Preservation of Live Marine Resources (6 credits)
Planning and Management of the Coast and Marine Environment (7.5 credits)	Management of the Coast (6 credits)
Mineral Marine Resources (4.5 credits)	Marine Mineral Resources (6 credits)
Economic Geology of Marine Resources (6 credits)	Marine Mineral Resources (6 credits)
Assessing the Coast (6 credits)	Sedimentology (6 credits)
The Marine Environment and Pollution (18 credits)	

\*Two routes for credit equivalence recognition have been established, both requiring application by the interested party and subject to approval by the Commission for Credit Recognition and Transfer and Assessment of Academic Records.

Individual equivalences by subject:

The above Table details credit equivalence for credits taken on the former Degree in Marine Sciences (Licenciatura/Grado) in Marine Sciences at the University of Alicante, and the new Degree (Grado).

For students transferring from other centres, the Commission for Credit Recognition and Transfer and Assessment of Academic Records will consider the cases, on the basis of the above Table of Credit Equivalence.

Equivalence recognition by subject blocks:

- Students who have successfully completed the first year of the Degree in Biology or Chemistry (Degree courses currently offered in the Faculty of Sciences at the University of Alicante) will be considered as having passed the first year of the new Degree (Grado). This is in addition to the application of the credit equivalences listed in the above Table for subjects corresponding to the remaining academic years.
- Any core, compulsory and optional subjects taken by students on the current Degree (Licenciatura) programme in Marine Sciences which do not have direct equivalence with subjects on the new Degree (Grado) course, will be given credit equivalence as Optional credits.
- Any other equivalence recognition requested will be considered by the Commission for Credit Recognition and Equivalence, in accordance with current legislation.

Correspondence between degree courses in the Faculty of Sciences at the UA:

As detailed in the report, the Faculty of Sciences at the University of Alicante has proposed five degree courses in the area of the Sciences (Biology, Marine Sciences, Geology, Chemistry and Mathematics) and one degree course in the area of Health Sciences (Optics and Optometry). In order to facilitate mobility between courses at the end of the first year, it has been agreed that recognition will be given to all credits obtained in their first year of study for students joining the Degree in Marine Sciences from other Science Faculty degree programmes, whether or not they are from the Sciences.

This may mean that in the second year of the Degree, some students lack a basic foundation, which could hinder the progress of their studies. In these cases, tutorial help will be offered to students in order to remedy this lack and provide guidance in certain fundamental areas.





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- Internal Quality Assurance System (IQAS) of the Title
    - Structure of the Centre for Quality
      - Internal Quality Assurance System (IQAS)
      - Internal Quality Assurance System (IQAS)
    - Internal Quality Assurance System (IQAS)
    - Internal Quality Assurance System (IQAS)
    - Internal Quality Assurance System (IQAS)
    - Internal Quality Assurance System (IQAS)
    - Internal Quality Assurance System (IQAS)
  - Follow-up of the Title
    - Internal Quality Assurance System (IQAS)
    - Internal Quality Assurance System (IQAS)
    - Internal Quality Assurance System (IQAS)
    - Internal Quality Assurance System (IQAS)
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Information about the Centre	General information for students
<ul style="list-style-type: none"><li>Faculty of Sciences<ul style="list-style-type: none"><li>Telephone: +34 96 500 2007</li><li>Fax: +34 96 500 2781</li><li>Registration Office: <a href="mailto:registro@ua.es">registro@ua.es</a></li></ul></li><li>Medical Programmes<ul style="list-style-type: none"><li>Work agreements with companies and institutions</li><li>Research and innovation areas</li><li>Transfer Action Programmes</li></ul></li></ul>	<ul style="list-style-type: none"><li>Grants and assistance</li><li>Accommodation</li><li>Student references and references</li><li>Language</li><li>Language medical care</li><li>Language</li><li>Services for students with special needs</li><li>Student representation and initiatives</li><li>University student identity card (UIC)</li><li>University student card (UIC)</li><li>University student card (UIC)</li></ul>
<b>UA: General Regulations</b>	<b>Information about qualifications</b>
<ul style="list-style-type: none"><li>Regulatory conditions and procedures of the University of Alicante</li></ul>	<ul style="list-style-type: none"><li>Other links about the university</li><li>UIC link</li><li>Information regarding</li><li>Video presentation of the degree</li></ul>