



u
3
o

Opening up horizons

UNIVERSITY OF WESTERN BRITTANY



HR EXCELLENCE IN RESEARCH



CONTENTS

A Word of Welcome by Mr Gallou, President of the University
Opening up horizons

1 - Who we are

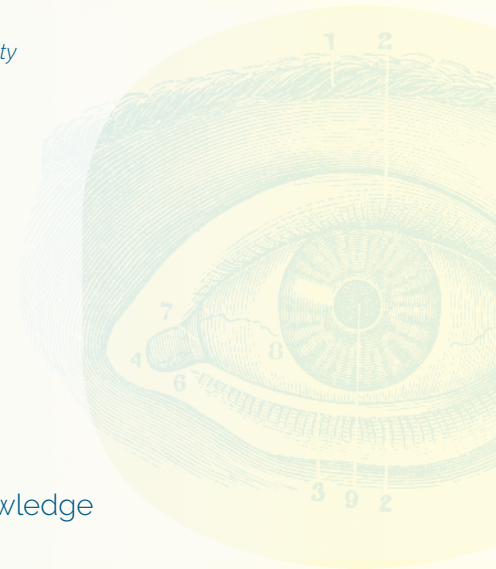
- 1.1 History
- 1.2 Key Figures
- 1.3 Campus
- 1.4 International
- 1.5 Location

2 - Opening up to knowledge

- 2.1 Research Units
- 2.2 Doctoral Schools
- 2.3 Departments and Courses
- 2.4 Innovative tools for access to knowledge

3 - Opening up to others

- 3.1 University and Society
- 3.2 Student Life
- 3.3 Culture - Arts



// A Word of Welcome

OPENING UP HORIZONS



Founded in 1971 in the Pointe de Bretagne area, the University of Western Brittany (UBO) is a multidisciplinary university, attuned to the social, economic, political, cultural or environmental changes of our societies and the associated challenges.

With a strong local foothold and network, its focus is naturally turned towards the sea (we are ranked 12th in the Shanghai Academic Ranking of World Universities for the oceanography category) but its national and international influence also reaps the benefit from, in particular, its strengths in both the information and technology sciences and the human and social sciences.

As a metropolitan university, much of UBO's activity takes place on the Finistère campuses (Brest, Quimper and Morlaix). But its influence spreads across the whole of Brittany, in particular through the Higher National Teacher Training and Education Institutes (INSPés) of the Regional Educational Authority, and from 2020 through the Alliance Universitaire de Bretagne cluster created with Université Bretagne-Sud and the Brest graduate school of engineering (ENIB).

As a multidisciplinary university, it has an ambitious research and training policy that seeks to advance knowledge and improve qualifications for students and professionals in Western Brittany and beyond.

With long-standing experience in continuing vocational training, it offers numerous placement-study programmes, mainly through apprenticeships. As an innovative university, it supports local economic development through the inventiveness of its researchers and the creativity of its graduates.

Open-minded and outward looking, UBO enhances and structures its positioning, both through its research-led activities and its quality in teaching, and through its numerous partnerships with universities around the world, notably China, Canada, Australia, South Africa and, of course, all of the EU countries. In this respect, setting up the European University of the Seas (SEA-EU), with the universities of Cadiz (Spain), Kiel (Germany), Gdansk (Poland), Split (Croatia) and Malta will be one of UBO's central activities in the coming year.

Matthieu Gallou,
President of UBO



Quimper
&



Morlaix
Saint-Brieuc
Vannes
Rennes

B
E
B

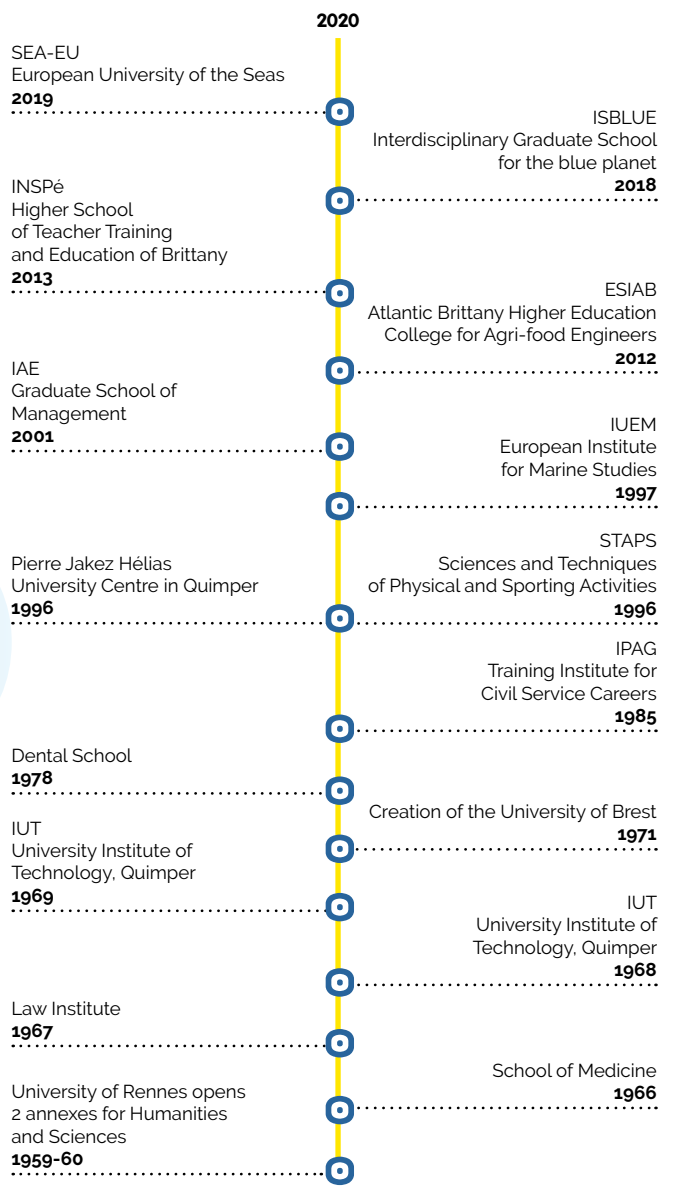


WHO WE ARE

- 1.1 History
- 1.2 In figures
- 1.3 Campus
- 1.4 Location
- 1.5 International

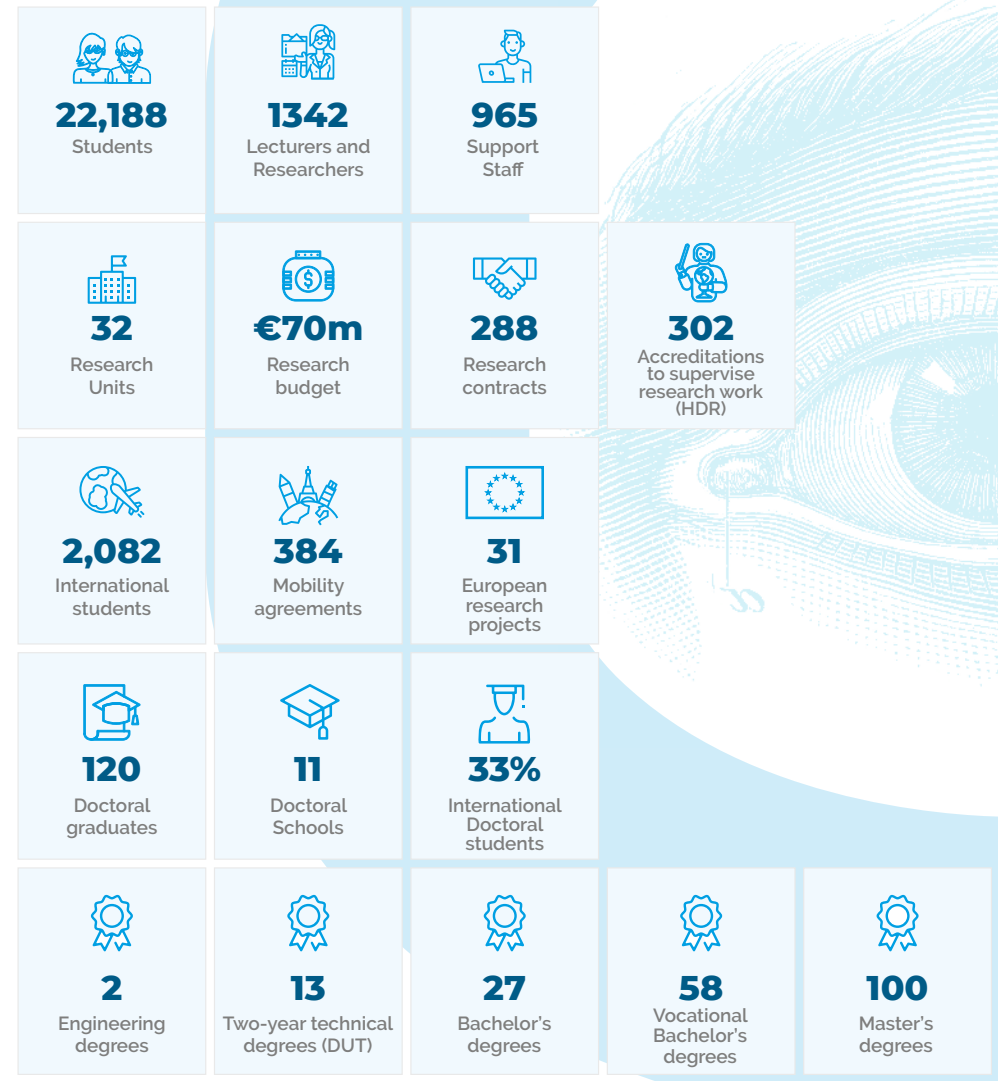
1

1.1 History



1.2 In figures

as of 1 October 2019



1.3 Campuses

The UBO is a multi-campus university (Brest, Morlaix, Quimper, Rennes, Saint-Brieuc and Vannes). Sites are generally based in city centres but some are located in stunning natural environments with exceptional views overlooking the sea. Over the past 10 years, the university has constructed 6 new buildings.

1 Brest Iroise Technopole Campus

1.1 & 1.2 IUEM (European Institute for Marine Studies) - 1.3 ESIAB (Higher Education College for Agri-food Engineers in Atlantic Brittany)

2 Downtown Campus

2.1 & 2.2 Faculty of Arts and Humanities Victor Segalen - 2.3 Library Faculty of Arts and Humanities - 2.4 IBRBS Brest Institute for Bio-Health Research - 2.5 Faculty of Medicine



1



1.1



1.2



1.3



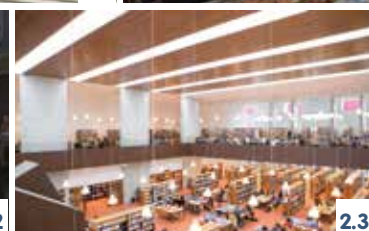
2



2.1



2.2



2.3



2.4



2.5



3



3.1



3.2



3.3



3.4



3.5



3.6



3.7



3.8



3.9

3 Bouguen Campus -

3.1 Faculty of Science and Technology - 3.2 FACULTY OF Sports and Educational Sciences - IAE Brest University School of Management - 3.3 Faculty of Law, Economics, Management and Economics and Social Administration - 3.4 Pôle Numérique (Digital Centre) Brest Bouguen campus - 3.5 Bouguen Library - 3.6 Sports field artificial turf - 3.7 Bouguen University Restaurant - 3.8 IUT Brest-Morlaix - 3.9 The energy tour

4 Quimper Campus

4.1 Pierre Jakez Hélias University Centre - 4.2 IUT Quimper and ESIAB

5 Morlaix Campus

- 5.1 IUT Morlaix



4



4.1



4.2



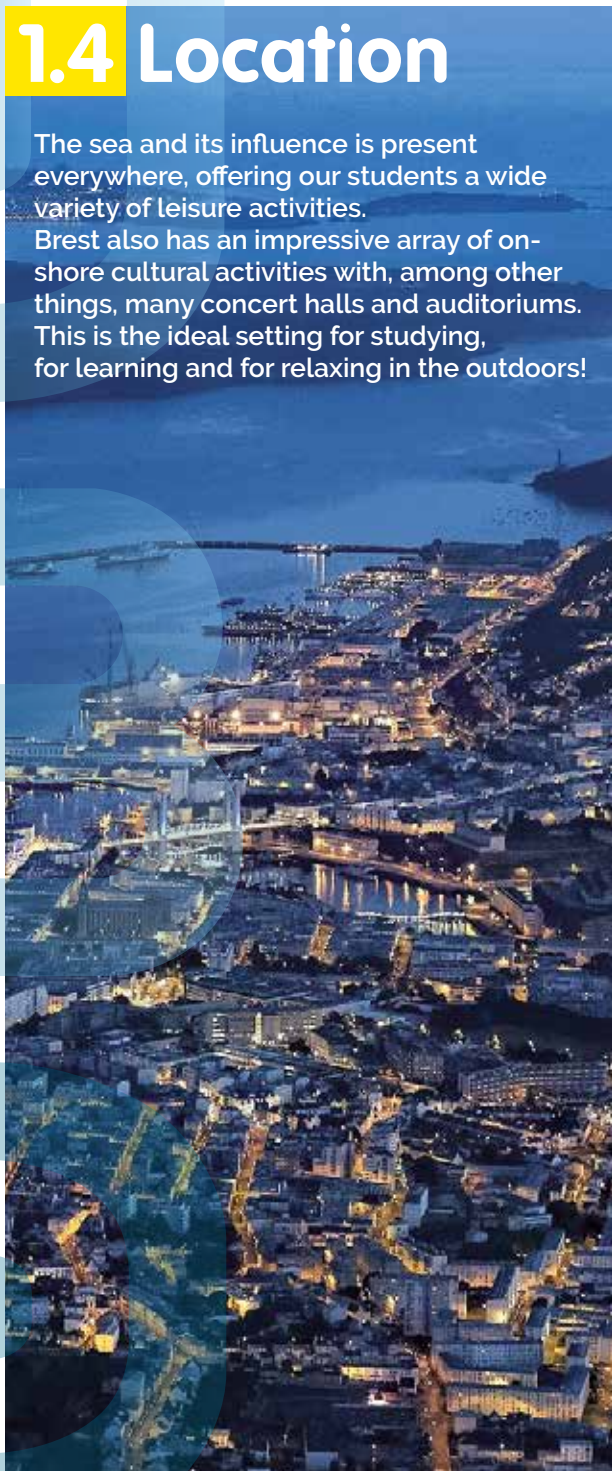
5



5.1

1.4 Location

The sea and its influence is present everywhere, offering our students a wide variety of leisure activities. Brest also has an impressive array of on-shore cultural activities with, among other things, many concert halls and auditoriums. This is the ideal setting for studying, for learning and for relaxing in the outdoors!



1.5 International outlook

UBO's international outlook revolves around several elements. First of all, **student mobility**: we host over 2,000 international students every year from all continents. UBO students at different stages in their academic career (those undertaking the two-year technical degree (DUT), bachelor's and doctoral degrees) can take part in a mobility experience in Europe (on the basis of the Erasmus+ agreements). Mobility is also possible outside of Europe. UBO offers mobility grants to students.

Secondly, UBO also focuses on encouraging **mobility for all** of its academic and non-academic staff.

UBO's international endeavours also include linking training and research, as is the case, for example, with our key Chinese, Moroccan or Quebecois partners. UBO is involved in 46 European projects, a signatory of 4 international joint laboratories and 2 international associated laboratories. In 2018, UBO received the European Commission's HRS4R award and is committed to promoting researcher mobility.

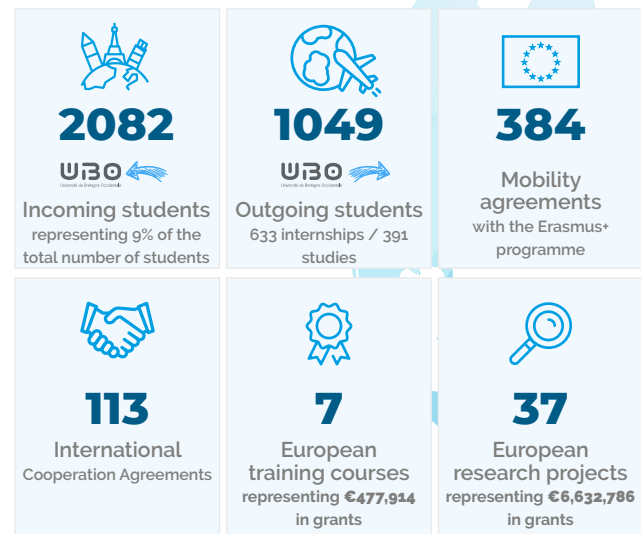
SEA-EU

UBO is one of the 16 French institutions that won the 2019 "European University" call for projects with 5 European partners (the universities of Cadiz, Gdansk, Kiel, Malta and Split).

Called "SEA-EU", this alliance is a new academic model putting physical and virtual mobility for the universities' students and staff at its heart.



Implementation of the Human Resources Strategy for Researchers (HRS4R) Award at UBO. To enhance its attractiveness and raise its international profile, UBO is committed to a global quality approach towards human resources that is perfectly integrated into the HRS4R approach. The objective is also to support a positive working environment that challenges our researchers, and to unite the entire community around common values and principles so it can continually improve its human resources management.



OPENING UP TO KNOWLEDGE

2.1 Structuring research

2.2 Doctoral Schools

2.3 Departments and Courses

2.4 Innovative tools for access to knowledge



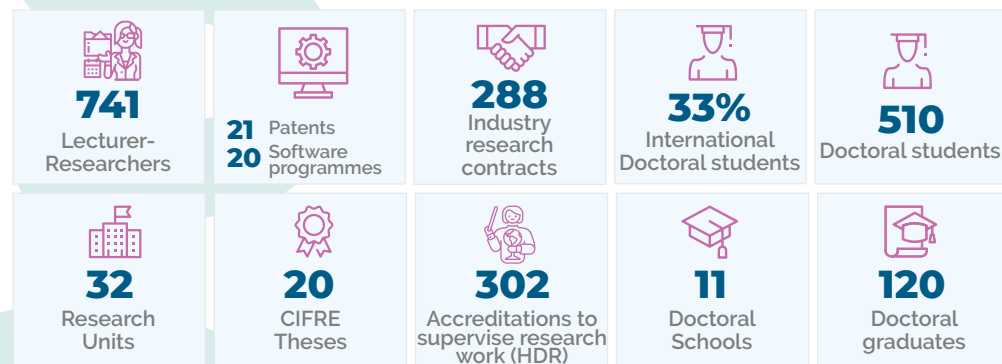
2.1 Structuring research

UBO contributes to the creation of fundamental knowledge and the development of technological innovations to meet the societal challenges of tomorrow.

UBO has a multidisciplinary research ecosystem, centered around four lines of research: human and social sciences, health-agro-matter, sea, digital technology and mathematics. UBO has adopted an ambitious research policy that is guided by several priorities:

- > Enhancing attractiveness and raising the international profile of its research units which enables complementarity between fundamental and applied research.
- > Preparing doctoral students to meet the scientific challenges of tomorrow.

- > Valorizing scientific results to develop an ecosystem of innovation, a source of growth and the creation of jobs.
- > Foster the continuum between research, innovation and training. The University is developing an innovation and technology transfer strategy to strengthen the competitiveness of companies. Four levers are used:
 - > Harnessing the expertise of lecturer-researchers
 - > Making state-of-the-art scientific equipment accessible
 - > Hosting start-ups as close as possible to the research units
 - > Developing the co-financing of ambitious research projects.



TECHNOLOGY PLATFORM SERVICE

The Technology Platform Service is a grouping of equipment and human resources. Staffed by highly qualified personnel, in particular research engineers, the department provides scientific expertise by utilizing know-how and skills. Technical and scientific collaborations are offered to UBO researchers and lecturer-researchers, but also to public research organizations and the industry. **Common Animal Facility - X-ray diffraction (XRD) - Microscopy Imaging and Measurement Platform (PIMM) - Nuclear Magnetic Resonance - Electronic Paramagnetic Resonance (EPR-NMR) - Mass Spectrometry (MALDI-TOF)**

SEA

IUEM OSU European Institute for Marine Studies and the Planetary Science Observatory (OSU)

Research Units:

AMURE (UMR 6308) Development of the Uses of Marine and Coastal Resources and Spaces – Centre for Law and Economics of the Sea

IRDL (UMR 6027) Dupuy de Lôme Research Institute

LBCM (EA 3884) Laboratory for Marine Biotechnology and Chemistry

LEMAR (UMR 6539) Laboratory for Marine Environmental Sciences

LETG (UMR 6554) Littoral, Environmental, Remote Sensing, and Geomatics

LGO (UMR 6538) Laboratory for Ocean Geosciences

LM2E (UMR 6197) Laboratory for Microbiology of Extreme Environments

LOPS (UMR 6523) Laboratory of Physical and Spatial Oceanography

Other structures:

BEBEST Franco-Québec International Associated Laboratory (LIA) for research and development in Benthic Biodiversity Ecology, Sciences and Technologies

DISCOH International Joint Laboratory (LMI) for Dynamics of the Humboldt current system

ECLAIRS 2 International Joint Laboratory (LMI) for Integrated studies on the climate and ocean in West Africa and responses to climate change in Senegal

MICROBSEA Franco-Chinese International Associated Laboratory (LIA) for Deep Sea Microbiology

TAPIOCA International Joint Laboratory (LMI) for Physical, Biogeochemical, Ecological and Human Dynamics

OSU: Planetary Science Observatory

UMR: Joint Research Unit

EA: Welcome Team

LIA: International Associated Laboratory

LMI: International Joint Laboratory

DIGITAL MATHEMATICS

IBNM Brest Institute of Digital Technology and Mathematics

Research Units:

LAB-STICC (UMR 6285) Laboratory for Information and Communication Science and Technology

LMBA (UMR 6205) Atlantic Brittany Laboratory for Mathematics

HUMANITIES & SOCIAL SCIENCES

IBSHS Brest Institute for Humanities and Social Sciences

Research Units:

CAPHI (EA 7480) Atlantic Centre for Philosophy

CECJI (EA 7289) Centre for the Study of Letters and Diaries

CFV (EA 1161) Centre Francois Viète

CRBC (EA 4451) Centre for Breton and Celtic Research

CREAD (EA 3875) Research Centre for Education, Learning and Didactics

CRPC-CLCS (EA 4050) Department of Research in Psychopathology - Clinical Bonding and Subjective Creation

GÉOARCHITECTURE: (EA7462) Territories, Urbanization, Biodiversity, Environment

HCTI (EA 4249) Heritages and Constructions in Text and Image

LABERS (EA 3149) Laboratory for Study and Research in Sociology

LAB-LEX (EA 7480) Law Research Laboratory

LEGO (EA 2652) Economics and Management Laboratory of Western Brittany

LP3C (EA 1285) Laboratory for Psychology: Cognition, Behaviour, Communication

AGRI HEALTH MATTER

IBSAM Brest Institute for Health-Agri-Environment-Materials

Research Units:

CEMCA (UMR 6521) Laboratory for Molecular Chemistry, Electrochemistry, and Analytical Chemistry

GGFB (UMR-S 1078) Genetics, Functional Genomics and Biotechnology

LATIM (UMR-S 1101) Laboratory of Medical Information Processing

LBAI (UMR-S 1227) Lymphocytes B and Auto Immunity

GETBO (EA 3878) Thrombosis Study Group of Western Brittany

LIEN (EA 4685) Laboratory for Epithelial-Neural Interaction

LUBEM (EA 3882) University Laboratory for Biodiversity and Microbial Ecology

ORPHY (EA 4324) Optimization of Physiological Regulations

OPTIMAG (EA 938) Laboratory for Optics and Magnetism

SPURBO (EA 7479) Primary Care, Public Health, Cancer Registry of Brittany

Other structures:

CIC 0502 Clinical Investigation Centre of Brest

GEIHP Study Group on Host-Pathogen Interactions (Angers)

2.2 Doctoral Schools

shared between Breton and Loire institutions

1- MATHSTIC

22 partner
Research Units
17 institutions
500 HDR
(Accreditations
to supervise
research work)
holders
Around 1100
doctoral students
On average 300
theses defended
each year

2- ENGINEERING SCIENCES

15 partner
Research Units
294 HDR
(Accreditations
to supervise
research work)
holders
576 Doctoral
Students
On average 129
theses defended
each year

3- ECONOMICS AND MANAGEMENT SCIENCES

8 partner
Research Units
191 HDR
(Accreditations
to supervise
research work)
holders
288 Doctoral
Students
On average 60
theses defended
each year

4- EDUCATION, LANGUAGES, INTERACTION, COGNITION, CLINICAL SCIENCES

12 partner
Research Units
130 HDR
(Accreditations
to supervise
research work)
holders
359 Doctoral
Students
On average 56
theses defended
each year

5- BIOLOGY, HEALTH

47 partner
Research Units
594 HDR
(Accreditations
to supervise
research work)
holders
571 Doctoral
Students
On average 90
theses defended
each year

6- MARINE AND COASTAL SCIENCES

42 partner
Research Units
228 HDR
(Accreditations
to supervise
research work)
holders
259 Doctoral
Students
On average 78
theses defended
each year

7- ARTS, HUMANITIES AND LANGUAGES

17 partner
Research Units
152 HDR
(Accreditations
to supervise
research work)
holders
405 Doctoral
Students
On average 53
theses defended
each year

8- ECOLOGY, GEOSCIENCES, AGRONOMY, FOOD

31 partner
Research Units
734 scientists
(researchers,
lecturer-
researchers,
engineers)
357 HDR
(Accreditations
to supervise
research work)
holders
330 Doctoral
Students
On average 100
theses defended
each year

9- MATTER, MOLECULES AND MATERIALS

13 partner
Research Units
420 HDR
(Accreditations
to supervise
research work)
holders
504 Doctoral
Students
On average 147
theses defended
each year

10- SOCIETY, TIME, TERRITORIES

17 partner
Research Units
174 HDR
(Accreditations
to supervise
research work)
holders
431 Doctoral
Students
On average
83 these
defended
each year

11- LAW AND POLITICAL SCIENCES

10 partner
Research Units
230 HDR
(Accreditations
to supervise
research work)
holders
400 doctoral
students
On average 55
theses defended
each year

The different universities in Brittany and Pays de Loire have mutualized their doctoral schools to increase their profile and fulfil their missions to the best of their ability by:

- Raising the profile of the doctoral student's profile and the management of the doctoral degree.
- Implementing common procedures in compliance with the doctoral charter.
- Promoting the doctoral student's skills and career monitoring.
- Coordinating transdisciplinary training courses.
- Creating, implementing and assessing coordinated transdisciplinary training courses.
- Coordinating international activities.
- Developing a tracking and management tool.

2.3 Departments and Courses



INSPÉ
HIGHER NATIONAL INSTITUTE
OF TEACHER TRAINING AND
EDUCATION OF BRITTANY



EUROPEAN
INSTITUTE
FOR
MARINE STUDIES



FACULTY
OF HUMANITIES
AND
SOCIAL SCIENCES



FACULTY
OF
SCIENCE
AND TECHNOLOGY



ESIAB
HIGHER EDUCATION COLLEGE
FOR AGRI-FOOD ENGINEERS
IN ATLANTIC BRITTANY



IUT BREST-MORLAIX
UNIVERSITY INSTITUTE
OF
TECHNOLOGY



IUT QUIMPER
UNIVERSITY
INSTITUTE
OF TECHNOLOGY



SCHOOL OF MEDICINE
SCHOOL OF DENTISTRY
SCHOOL OF MIDWIFERY
DEPARTMENT OF SPEECH AND LANGUAGE THERAPY



FACULTY OF LAW,
ECONOMICS,
MANAGEMENT & ECONOMICS
AND SOCIAL ADMINISTRATION



IAE
GRADUATE
SCHOOL
OF MANAGEMENT



IPAG
TRAINING INSTITUTE
FOR CIVIL SERVICE
CAREERS



FACULTY
OF SPORTS AND
EDUCATIONAL
SCIENCES

UNIVERSITY OF BREST FACULTY OF HUMANITIES AND SOCIAL SCIENCES

The different courses are a blend of theory and practical skills combining the acquisition of theoretical knowledge, introduction to research approaches and methods, and the development of practical knowledge through workshops, career conferences with special guest speakers, field trips, internships, stays abroad and tutored projects. Not only a place of study, the Faculty is also a place of research: conferences, seminars, study days and symposia organized by many of the Faculty's affiliated laboratories host French and foreign researchers and are also accessible to students, in keeping with the training-research relationship at the heart of its missions.

🏠 12 departments

- 1/Arts
- 2/Geography and Town and Country Planning
- 3/History
- 4/History of Art and Archaeology
- 5/Humanities
- 6/Applied Foreign Languages
- 7/Languages, Literature and Foreign and Regional Civilizations
- 8/Humanities
- 9/Philosophy
- 10/Psychology
- 11/Human Sciences, Anthropology, Ethnology
- 12/Sociology

🔬 8 Research Units

- CAPHI** Atlantic Centre for Philosophy
- CECJI** Centre for the Study of Letters and Diaries
- CFV** Centre François Viète
- CRBC** Centre for Breton and Celtic Research
- CRPC-CLCS** Department of Research in Psychopathology - Clinical Bonding and Subjective Creation
- HCTI** Heritages and Constructions in Text and Image
- LABERS** Laboratory for Study and Research in Sociology
- LP3C** Laboratory for Psychology: Cognition, Behaviour, Communication

👤 4,000 students / 150 lecturer-researchers



The Faculty is located right in the middle of Brest city centre.



The Centre for Breton and Celtic Research's Yves Le Gallo Library has a very extensive collection of publications on Brittany and the Celtic countries.

COURSES

GENERAL BACHELOR'S DEGREES

- Arts**
- Humanities**
 - European, Classical and Digital Literacy
- LEA Applied Foreign Languages**
 - English-German
 - English-Chinese
 - English-Spanish
 - Law-International Careers

- Humanities**
 - Classical Humanities
 - Modern Humanities
- LLCER Languages, Literature and Foreign and Regional Civilizations**
 - English
 - Spanish
 - Breton

- History**
 - History-Art and Archaeology
 - History - Geography
 - History-Political and Social Sciences

- History of Art and Archaeology**
 - Law-Art Market
 - Art and Archaeology
 - Heritage

- Philosophy**
 - Philosophy (single disciplinary)
 - Openness (multidisciplinary)

- Psychology**
- Human Sciences, Anthropology, Ethnology**
 - Ethnology

- Sociology**
- Geography and Town and Country Planning**
 - Sea, Environment, Tourism, Town and Country Planning, Coast (METAL)

VOCATIONAL BACHELOR'S DEGREES

- Social Interventions: Support for Specific Populations**
 - Gerontological Coordination Manager
- Careers in Tourism and Leisure**
 - Designing Tourism Products and Promoting Regions
 - Tourism Accommodation and Environments

MASTER'S DEGREES

- Arts, Humanities, Civilizations**
 - Texts, Images, Foreign Languages
 - Preparation for higher education English

- Performing and Performing Arts**
 - Traditional Music Artists

- Culture and Communication**
 - International Project Management

- French as a Foreign Language**
 - French as a Foreign Language Educational Practices

- Languages and Society**
 - Celtic languages and cultures in contact

- Humanities**
 - LICE (Literature, Correspondence, Publications)
 - Preparation for higher education Humanities

- Management and International Trade**
 - Management of Multilingual Export-Related International Projects

- Running Cultural Projects or Institutions**
 - Live Performance Management

- Translation and Interpreting**
 - Writer/Translator

- Epistemology, History of Science and Technology**
 - Cultural History of Science and Technology, Digital Humanities and Mediations

- Civilizations, Cultures and Societies**
 - Civilizations, Cultures and Societies (Ethnology, History, Philosophy, Breton)
 - Preparation for higher education History

- Gender Studies**
 - The Body and Biopolitics
 - Discrimination

- IDS Intervention and Social Development**
 - Leadership and Management of Services and Projects: Ageing-Disabilities
 - Leadership and Management of Services and Projects: Childhood-Family

- Heritage and Museums**
 - Management of Architectural, Artistic and Cultural Heritage

- Psychology**
 - Subjectivity and Unconscious Processes: Trauma, Suffering and Exclusion (SPI)
 - Social Representations, Practices and Interventions: Qualitative and Quantitative Studies (RESPI)
 - Cognition, Learning, Assessment and Remediation: Virtual Reality and Simulation (CAER)

- Clinical Psychology, Psychopathology and Health Psychology**
 - Psychology of Normal and Pathological Ageing

- Tourism**
 - Management of Coastal Tourism Activities and Structures.

HUMANITIES & SOCIAL SCIENCES

UNIVERSITY OF SCIENCE AND TECHNOLOGY

Courses at the Faculty of Science and Technology are enriching and cover a broad spectrum in the field of sciences from fundamental to engineering sciences. The Faculty relies on the multidisciplinary activity of its six research units, which allows everyone to follow the path that best suits their main interests and career plans. Many of the courses offer placement-study programmes. It welcomes students from all academic levels from other French, European or non-European universities and international mobility is possible for all of its paths.

6 Research Units

CEMCA Laboratory for Molecular Chemistry, Electrochemistry, and Analytical Chemistry

LMBA Atlantic Brittany Laboratory for Mathematics

OPTIMAG Optics and Magnetism

GÉOARCHITECTURE: Territories, urbanization, biodiversity, environment

ORPHY Laboratory for the Optimization of PHYsiological Regulations

Lab-STICC Laboratory of Information and Communication Science and Technology

10 departments

- 1/Biology
- 2/Chemistry
- 3/Géoarchitecture
- 4/Electronics
- 5/Computer Science
- 6/Communication, English and Human sciences
- 7/Mathematics
- 8/Physics
- 9/Earth Sciences
- 10/Mechanical Engineering

3,000 students / 250 lecturer-researchers



Oedemera - Biology



Chemistry Laboratory of the Faculty of Science and Technology



Hosting the French Congress of Mechanics (CFM) - August 2019
The event brought together over 1,000 participants from 22 different countries.

COURSES

DEUST (SCIENTIFIC AND TECHNICAL UNIVERSITY STUDIES DIPLOMA)

Technician in Interactive and Communicating Media

UNIVERSITY DEGREE

Actuarial Degree from Brest

BACHELOR'S DEGREES

Engineering Sciences

- Image and Sound
- Mechanical Technology
- Electronics and telecommunications
- Signals, Telecommunications and Networks
- CMI (Master of Engineering) Electronics Radio frequencies and Telecommunications
- CMI (Master of Engineering) Telecommunications and Networks

Computer Science

- Application Design and Development
- Computer Engineering
- International
- Computer Science: Foundations and Applications

Mathematics

- Fundamental Mathematics
- Advanced Mathematics and Competitive Examinations (PMRC)

Mathematics and Computer Science applied to the Human and Social Sciences (MIASHS)

- Mathematics-economics
- Advanced Mathematics and Competitive Examinations (PMRC)
- Financial Mathematics

Physics, Chemistry

- Physics
- Chemistry
- Physics-Chemistry
- Physics-Mathematics

Earth Sciences

- Geology
- Biology and Geology
- Hydrography

Life Sciences

- Biology of Organisms and Populations Environment
- Cellular and Molecular Biology and Physiology
- Multidisciplinary Path BCMP - Cellular and Molecular Biology and Physiology multidisciplinary

Geography and Town and Country Planning

- Town and Country Planning and Urbanism

VOCATIONAL BACHELOR'S DEGREES

Landscaping: design, management, maintenance

- Project Coordinator: Coastal landscapes and natural heritage

Careers in Electronics: Communication, On-board Systems

- On-board Marine Electronics Systems (SEME)

Careers in Building and Civil Engineering Works: energy and environmental performance of buildings

- Environmental Management and Overall Quality of Constructions

MASTER'S DEGREE

Actuarial Science

Biodiversity, Ecology, Evolution

- Biodiversity Management and Conservation

Chemistry

- Chemistry and Interfaces with Living Organisms
- Analytical Chemistry, Chemometrics, Quality - Optimization of Experimental Procedures [CACQ-OPEX]

Computer Science

- Software Engineering, Applications for Environmental Data
- Software for On-board Systems
- Software Development for Information Systems
- Information Technology and Software Engineering (placement-study programme)
- International
- Complementary Skills in Digital Services

- Interactive, Intelligent and Autonomous Systems

Design Engineering

- Mechanical Design - Industrial Engineering

Image Engineering, Sound Engineering

- Image and Sound

Mathematics and Applications

- Fundamental Mathematics
- Preparation for the Agrégation public education competitive exam
- Careers in teaching
- Advanced course

Microbiology

- Fundamental and Applied Microbiology

Networks and Telecommunications / CMI (Engineering Master's Degree Curriculum)

- Radio Frequency and Telecommunications Electronics
- Telecommunications and Networks
- Signals and Telecommunications

Urbanism and Town and Country Planning

- Urbanism and Development
- Environment and Town and Country Planning

Fundamental Physics and Applications

- Nanosciences, Nanomaterials, Nanotechnologies
- Photonics
- Physics and Instrumentation

Biology-Health

- Analyzing toxicological risk to the consumer [ARTox]
- Physiology of Regulations

SCIENCE TECHNOLOGY

FOCUS Sciences

Institutes and specialized paths

ISB

ISB Image & Sound Brest

The Image & Sound course is one **of the few university curricula in France** for training in the technical trades of image and sound.

The course content is **multidisciplinary**, combining scientific and technical subjects. The ISB (Image & Son Brest) teaching team, in line with this multidisciplinary approach, is made up of around sixty people (1/4 academic staff and **3/4 visiting professionals**) from various backgrounds. The studios and technical equipment, which are regularly maintained and updated, are available to students. To ensure easy access to the material and training under optimal conditions, **these courses are limited to 24 students**. ISB's full three-year training course consists of a 1-year Bachelor's degree and a 2-year Master's degree.



Recording studio



Mixing auditorium



Film set

EURIA

European Institute of Actuarial Studies

EURIA has been training actuaries since 1989. It has 560 graduates and more than **400 actuaries who are members of the French Institute of Actuaries**. This institute excels in the French and international actuarial landscape. In addition, it is **one of the ten training paths recognized by the French Institute of Actuaries**, which means that graduates become an Associate Actuary, which is a real employability asset. EURIA has already honoured 28 graduating classes and now our students can find **work several months before their actual graduation**. EURIA's graduate employability rate is 100%, for an average annual salary of around €40,000, which places EURIA at the same level as the best engineering schools.



Brest: city- and country-scape in one location

Institute
Géarchitecture
for Town and Country Planning
and Sustainable Urbanism,
Environment

Institute of GEOARCHITECTURE

Sustainable Town and Country Planning and Urbanism, Environment

The Institute of Geoarchitecture was founded on the basis of not one but several disciplines with the aim of providing high-level vocational education in the fields of **the environment, urbanism and town and country planning**.

The Institute awards a Bachelor's degree, for which it carries out the teaching in the third year, and a Master's degree, which includes professional practice workshops (junior design office). Its lecturer-researchers provide doctoral training through a Research Centre (EA 7462). Finally, there is a strong demand for its continuing education training for professionals groups. The Institute of Geoarchitecture is a member of APERAU (Association for the Promotion of Teaching and Research in Town and Country Planning) and of AESOP (Association of European Schools of Planning).



Hosting the Urbanism competition Challenge APERAU Brest 2019. 10 teams of students from France, Belgium and Switzerland took part.

SCIENCE & TECHNOLOGY

The whole world is now focusing on the ocean and its coastlines. The 21st century will be the century of the sea. Brest is a city at the cutting edge of Europe (both physically and literally!) and IUEM is a melting pot of marine sciences where the University and national bodies pool their resources and intelligence, developing its research at the forefront of knowledge. Over the years, its team of committed staff has enabled IUEM to build up expertise that is renowned throughout the international marine sciences community. Its studies are pluri- and interdisciplinary and are organized around four lines of research:

- 1- The sea, which plays a major role in biogeochemical cycles and in the climate of our planet.
- 2- Marine ecosystems and biodiversity.
- 3- Deep marine environments that are still unexplored.
- 4- The coast, a complex and fragile interface.

8 Research Units

AMURE Development of the Uses of Marine and Coastal Resources and Spaces

LETG-Brest Littoral, Environmental, Remote Sensing, and Geomatics

IRD Dupuy de Lôme Research Institute

LGO Laboratory for Ocean Geosciences

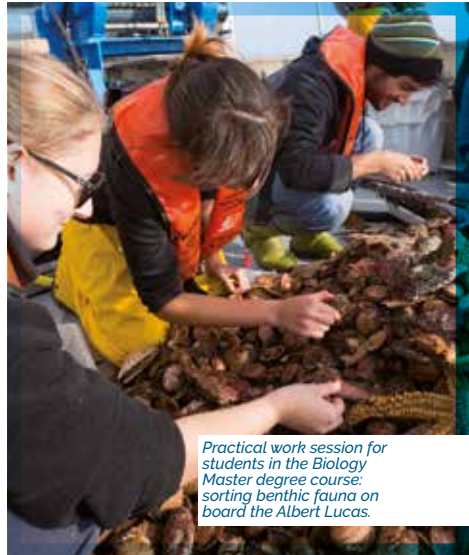
LBCM Marine Biotechnology and Chemistry Laboratory

LM2E Laboratory of Microbiology of Extreme Environments

LEMAR Laboratory of Marine Environmental Sciences

LOPS Laboratory of Physical and Spatial Oceanography

**250 Master students / 200 doctoral students
500 scientists, technicians and administrative staff**

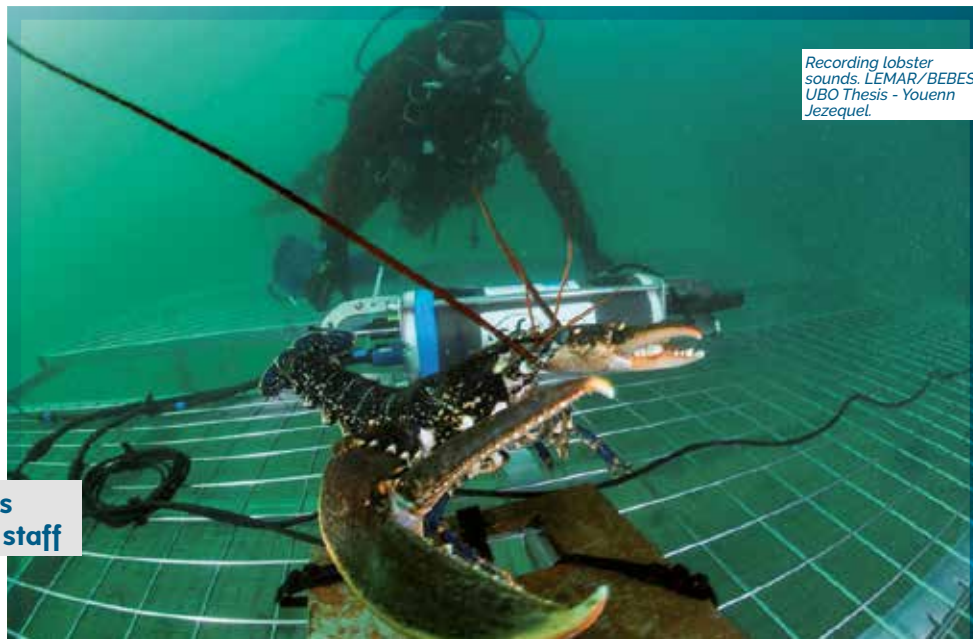


Practical work session for students in the Biology Master degree course: sorting benthic fauna on board the Albert Lucas.

The Interdisciplinary Graduate School for the Blue planet (ISblue) is the only Graduate Research School in France for marine sciences and technology financed under the "Investments for the Future Programme" (PIA). This confirms the leadership of higher education in Finistère in this strategic field, which enables it to raise its international profile.

AN INTERDISCIPLINARY GRADUATE SCHOOL IN MARINE SCIENCES AND TECHNOLOGY

ISblue, like the other graduate schools of research (EURs), is based on close collaboration between the universities, research organizations and engineering schools to promote all of the courses and research activities.



Recording lobster sounds. LEMAR/BEBEST UBO Thesis - Youenn Jezequel.

COURSES

MASTER'S DEGREE

Biology

- Biology of Marine Organisms
- Marine Ecosystems
- Fisheries and Aquaculture Sciences

Biotechnologies

- International Master's Degree in Marine Biotechnologies

Chemistry and Life Sciences

- Marine Environmental Chemistry

Applied Economics

- Agriculture, the Sea, Environment

Environmental Management

- Coastal Environment Assessment and Management

Marine Sciences

- Ocean and Climate Physics
- Marine Geophysics
- Naval Hydrodynamics

Earth, Planetary and Environmental Sciences

- Coastal and Nearshore Engineering and Management
- Ocean Geosciences

Law of Maritime Activities

- Law, Sea and Coast



FACULTY OF MEDICINE AND HEALTH SCIENCES

The role of the Faculty of Medicine and Health Sciences in Brest is to train doctors, professionals in health and social work and researchers in human biology.

The faculty collaborates closely with the other UBO departments and with the University Hospital of Brest (CHRU), and also with other academic and research institutions and the other university and research structures and hospital facilities in Western Brittany, Rennes, Nantes, Angers, Poitiers and Tours.

The faculty also wishes to engage in a societal role through health training and health education at the local/regional level by supporting future health professionals:

• **An office for medical demography and career guidance**

Its objective is to establish and maintain a link between the Faculty of Medicine and local/regional needs by proposing awareness-raising activities among medical students on the concept of medical demography. This also means encouraging students to take a forward-looking and proactive approach towards their career paths.

• **Université Citoyenne de Prévention en Santé (preventive health):**

Steered by the Faculty of Medicine of Brest, it offers training and awareness-raising on local/regional promotion of health and health education. It is aimed at anybody wanting to find out more information and undertake training in primary preventive care (vaccinations, obesity, tobacco, cancer prevention, etc.).

6 Research Units

GGB Genetics, Functional Genomics and Biotechnologies

LATIM Laboratory of Medical Information Processing

LBAI B lymphocytes and Auto Immunity

GETBO Thrombosis Study Group of Western Brittany

LIEN Laboratory for Epithelial-Neural Interaction

SPURBO Primary Care, Public Health, Cancer Registry of Brittany

3,000 students / 170 lecturer-researchers of which 158 are clinical lecturers



IBRBS Building: Brest Institute for Bio-Health Research



Laboratory for Genetics, Functional Genomics and Biotechnology

COURSES

BACHELOR'S DEGREES / MASTER'S DEGREES

Bachelor's Degree Health and Social Sciences

Master's Degree Biology-Health

- Food, Law, Nutrition, Health
- Genetics, Genomics and Biotechnology
- Clinical Neurosciences
- Signals and Images in Biology and Medicine
- Patient Therapeutic Education and Addictology
- Occupational Risk Assessment and Prevention

GENERAL TRAINING DIPLOMA in Medical Sciences (1st cycle)

- UBOPASS (pilot system for ways to access health studies) PACES (year 1 medical studies) adapted - direct route
- Year 2
- Year 3

DIPLOMA OF ADVANCED TRAINING in Medical Sciences (2nd cycle)

- Year 1
- Year 2
- Year 3

DIPLOMA OF SPECIALIZED Studies (3rd cycle)

- Medical residency - 42 diplomas

MEDICINE & HEALTH SCIENCES

UNIVERSITY DEPARTMENT OF SPEECH-LANGUAGE THERAPY OF BRITTANY

Master-level Diploma created at UBO in close partnership with the University Hospital (CHRU) that accepts 25 students per year. This five-year training course, representing a volume of hours of 5,198 including **2,040 hours of practical training**, enables students to acquire the fundamental knowledge for multi-disciplinary studies and develop skills in speech and language therapy intervention for all ages. Holders of the diploma can work in **medico-social establishments, private practice or state hospitals, and the qualification responds to a public health need in Brittany.**



Speech and language therapy: 5 years of study

MIDWIFERY SCHOOL

COURSES

General Training Diploma in Medical Sciences (1st cycle)

- UBOPASS (pilot system for ways to access health studies)
- PACES (year 1 medical studies) adapted - direct route
- Year 2: DFGSMa2 (General Training in Medical Science)
- Year 3: DFGSMa3 (General Training in Medical Science)

Diploma of Advanced Training in Medical Sciences (2nd cycle)

- Year 1: DFASMa1 (Advanced Training Diploma in Medical Science)
- Year 2: DFASMa2 (Advanced Training Diploma in Medical Science)

Continuing education leading to a diploma:

- University Diploma (DU) in Gynaecological follow-up for prevention, sexuality, birth control (1 year)

The State Midwifery Diploma: master-level, national higher education diploma, validates **5 years of studies** that combine theoretical and clinical teaching (internships). Holders can practice the profession of midwife as an employee, self-employed person, or both. Since September 2011, midwifery studies is organized in two parts over five years.

The aim of the CHRU (University Hospital)/UBO Midwifery School is to train future midwives, provide continuing training in the gynaecological, obstetrical and neonatal fields, and contribute to the development of research in midwifery sciences. It hosts **23 students for each year of training** admitted at the end of the UBOPASS scheme.



Midwife: 5 years of study

SCHOOL OF DENTISTRY

The School of Dentistry trains dental surgeons **and contributes** to the development of research and European and international cooperation. It collaborates closely with the other UBO departments and the **University Hospital (CHRU)**, whose dental department provides students' clinical training. The faculty contributes to student **employability**, in conjunction with professional organizations such as the Conseil Départemental de l'Ordre des Chirurgiens-Dentistes.

Practical work



COURSES

Initial training

General Training Diploma in Dental Sciences (1st cycle)

- UBOPASS (pilot system for ways to access health studies)
- PACES (year 1 medical studies) adapted - direct route
- Year 2: DFGSO2 (General Training in Dental Sciences)
- Year 3: DFGSO3 (General Training in Dental Sciences)

Diploma of Advanced Training in Dental Sciences (2nd cycle)

- Year 1: DFASO1 (Advanced Training Diploma in Dental Sciences)
- Year 2: DFASO2 (Advanced Training Diploma in Dental Sciences)

State Diploma of Doctor in Dental Surgery (1 year) (3rd cycle, short)

OR

Residency (State Diploma of Doctor in Dental Surgery + Higher Education Diploma)

- D.E.S. (Higher Education Diploma) in Oral Medicine (3 years)
- D.E.S. (Higher Education Diploma) in Oral Surgery (4 years)

Continuing education leading to a diploma

- University Diploma in Clinical Implantology (2 years)
- University Diploma in Digital Technology and Aesthetics in Dentistry (1 year)
- Certificate of Specialized Studies in Conservative Dentistry - Endodontics (1 year)

🧪 1 Research Unit

LBAI Lymphocytes B and Auto Immunity

👥 **220 students + 11 interns / 27 lecturers**



Practical work on a physical simulator

UNIVERSITY OF BRETAGNE FACULTY OF SPORTS AND EDUCATIONAL SCIENCES

The faculty offers multidisciplinary training (theory of physical and sports activities, physiology of exercise, sports psychology, history of body practices, educational sciences, modern languages, computer science, etc.) through lectures, tutorials and practical work. Students take part in numerous immersion internships to discover the intervention trades in the fields of training, teaching, care and physiotherapy and training. The aim is to show that scientific and vocational courses are complementary.

2 paths

- 1/ Sports Sciences
- 2/ Educational Sciences

5 Research Units

CREAD Research Centre for Education, Learning and Didactics

CRBC Centre for Breton and Celtic Research

LABERS Laboratory for Study and Research in Sociology

LATIM Laboratory of Medical Information Processing

ORPHY Optimization of Physiological Regulations

1,324 students / 35 lecturers
18 lecturer-researchers



Practical course in personalized/adapted sport



Brainstorming session with year 2 undergraduate Educational Sciences students



Sailing: Surfing at the Blancs Sablons beach in Le Conquet.

COURSES

SPORTS SCIENCES

GENERAL BACHELOR'S DEGREES

Sciences and Technology of Physical and Sporting Activities (STAPS)

- Sports Management
- Sports Training
- Education and Motor Skills
- Personalized/Adapted Physical Activity and Health

VOCATIONAL BACHELOR'S DEGREES

Management and Development of Organizations and Sports and Leisure Services

- Sailing and Sustainable Development

MASTER'S DEGREES

STAPS Personalized/Adapted Physical Activity and Health

- Prevention-Health

STAPS Training and Improving Sporting Performance

- Performance Support and Human Sciences

STAPS Sport Management

- Sport and Territories

EDUCATIONAL SCIENCES

GENERAL BACHELOR'S DEGREES

Educational sciences

- 2 Specific Paths:
 - School and Teaching
 - Adult Education and Training

MASTER'S DEGREES

Educational sciences

- Adult Education

SPORTS/EDUCATION



FACULTY OF LAW, ECONOMICS, MANAGEMENT & ECONOMICS AND SOCIAL ADMINISTRATION

The Faculty of Law, Economics, Management and Economics and Social Administration offers 18 courses, from Bachelor's to Doctoral level, and hosts some 2,500 students each year between the Brest and Quimper campuses. Its vocational training courses, but also the integration of internships into its generalist training courses, provides a fast track into the world of industry, administration, legal professions, associations, etc. Combined with the diversity of our initial and continuing training paths, this accessibility and openness towards the professional world is a valuable guarantee of dynamism for our teaching and research activities.

4 departments

- 1/ Law
- 2/ Economics-Management
- 3/ Economics and Social Administration
- 4/ Territory and Europe

2 Research Units

AMURE Development of the Uses of Marine and Coastal Resources and Spaces

LAB-LEX Law Research Laboratory

2,500 students / 100 lecturer-researchers



COURSES

GENERAL BACHELOR'S DEGREES

Economic and Social Administration

- Business Administration and Management (AGE)
- General and Regional Administration (AGT)

Law

- General Path (Brest and Quimper)
- Law-The Art Market (Quimper)
- Path LEA (Applied Foreign Languages) - International Careers (Brest)

Economics Management

- General Path Economics and Management
- International Path

VOCATIONAL BACHELOR'S DEGREES

Careers in Property: Real Estate Management and Administration

The Notarial Profession

MASTER'S DEGREES

Careers in Public Law / Advanced Public Law

- Advanced Public Law
- Vulnerable Persons Law
- Basic Private Law
- Heritage and Real Estate Law

Economic and Social Administration

- Management of Medical and Social Establishments and Personal Assistance Services
- Health Management and Training

Production, Logistics, Purchasing Management

- Marketing, Trade, Distribution and Purchasing
- Supply Chain Management and Purchasing

Regional Management and Local Development

- Management and Engineering of Regional Development in Europe

Justice, Trials and Proceedings

- Magistrature

Law of Maritime Activities

- Law, Sea and Coast

Currency, Banking, Finance, Insurance

- Advisor wealth/professional

INSTITUTE OF JUDICIAL STUDIES

DOCTORAL DEGREE

Law / Economics / Management

UNIVERSITY DEGREE

Criminology

LAW-ECONOMICS-MANAGEMENT
ECONOMICS AND SOCIAL ADMINISTRATION

A UBO graduate management school, IAE provides training courses in the primary functions of management. From Bachelor level to Master's, all courses at IAE focus on the professionalization of students through innovative real-life situations: learning in project mode, business games, talks by permanent researchers specialized in management and qualified practitioners, active pedagogy constructed with professionals, professionalization schemes (3-6-month internships each year or placement-study contracts).

1 Research Unit

LEGO Economics and Management Laboratory of Western Brittany

600 students / 20 lecturer-researchers



COURSES

BACHELOR'S DEGREE (YEAR 3)

Management

- Finance, Accounting
- Steering and Organizational Management

VOCATIONAL BACHELOR'S DEGREES

Insurance, Banking, Finance: Customer Advisor

- Client manager advisor in the personal banking and insurance market

MASTER'S DEGREES

Accounting, Control, Audit

Management Control and Organizational Auditing

- Organizational Performance Management
- Information Systems Management

Finance

Human Resources Management

Business Management and Administration

- Management and Administration of Companies (dual skill)
- Research in Management Sciences

Management and International Trade

Marketing, Sales

- Services Marketing

DOCTORAL DEGREE

Management Sciences (Economics and Management Laboratory of Western Brittany)

UNIVERSITY DEGREE

Entrepreneurship

- Student Entrepreneur
- Complementary skills in entrepreneurship and management

LAW-ECONOMICS MANAGEMENT
ECONOMICS AND SOCIAL ADMINISTRATION



IPAG TRAINING INSTITUTE FOR CIVIL SERVICE CAREERS

Since 1985, the UBO Training Institute for Civil Service Careers (IPAG) has been preparing students and interns for different types of competitive examinations and civil service careers. IPAG has also developed collaborations with several institutes or universities in France (Regional Institute of Administration (IRA) Nantes, The French Institute for International and Strategic Affairs (IRIS), Sciences Po Aix-en-Provence) and has launched an integrated preparatory class for the IRA competitive examinations. IPAG is also developing international partnerships in Mexico (Colegio de Moleros and the National Autonomous University of Mexico (UNAM)), Quebec (ENAP, The University of Public Administration), Germany (Kehl), Laos (ANPAP), Thailand (Universities of Chulalongkorn and Thammasat). Studying at IPAG also means having the opportunity to train in one of the partner institutions around the world.

Civil Service careers:

Customs, Defence, Public Finance, Foreign Affairs, Diplomacy, National Education, Police, Social Welfare, NGOs, Heritage Culture, Regional and Local authorities,

250 students / 70 lecturer-researchers



COURSES

BACHELOR'S DEGREE

Public Administration
(Year 3 Bachelor's Degree)

MASTER'S DEGREE

Public Administration

- General and Regional Administration (possibility of a double degree with Mexico)
- Diplomacy and International Relations
- Safety, Emergency, Security

PREPARATION FOR COMPETITIVE EXAMINATIONS

Preparation for the civil service administrative competitive examinations (category A): State, region, hospital

Preparation for the IRA (Regional Institute of Administration) competitive examinations

Integrated Preparatory Class, IRA Nantes

LAW-ECONOMICS MANAGEMENT - ECONOMICS AND SOCIAL ADMINISTRATION

For more than 50 years, IUT Brest-Morlaix has been developing training courses that meet both industry and academic demands. The IUT teaching staff support students in their acquisition of knowledge and while they are learning the skills for successful group and individual work.

Students can do internships from the first year of the two-year technical degree (DUT), placement-study programmes for the following courses: DUT, GACO, GC-CD, GEII and GMP and also in the Vocational Bachelor's Degree as IUT is broadening its professional experience options. In light of this, two graduate years from the Vocational Bachelor's Degrees were sponsored by two local companies in 2018-2019. This sponsorship continued into the 2019-2020 academic year. This year, 10 students on the placement-study programme (for the Careers in Electricity and Energy and Automated Systems, Networks and Industrial Computing vocational degrees) were recruited by the firm Cegelec Brest Tertiaire of the VINCI Énergies group. These students will follow training modules that are in line with the industry-specific aspects of VINCI Energies jobs. These modules will be provided on the IUT Brest-Morlaix campus by professionals from VINCI Energies group. Also since this year DUT GACO students can choose to do their second year in the placement-study programme.

2 campuses

Brest
Morlaix

6 departments

GACO

Administrative and Commercial Management of Organizations

GC-CD

Civil engineering - Sustainable Construction

GEA

Business and Administration Management

GB

Bioengineering

GEII

Electrical Engineering and Industrial Computing

GMP

Mechanical and Production Engineering

4 domains

Industry
Trade/Management
Agronomy/Biology
Civil Engineering

1,400 students / 100 lecturer-researchers



GACO
group work



Practical work
Bioengineering



Introduction to
Topography
Civil Engineering

COURSES

INDUSTRY

Design and Manufacturing of Composite Material Structures

Industrial Product Design

- Mechanical Design and Special Machines
- Mechanical Design and Digital Simulation

Design and Production in Industrial Boilermaking

Port and Naval Maintenance

Production Industrial Management

- Mechanics
- Wood
- Airworthiness of aircraft
- Robotics
- Careers in Fashion
- Materials Processing

Automated Systems, Networks and Industrial Computing

Careers in Electricity and Energy

AGRONOMY-BIOLOGY

Careers in Advisory for Livestock Breeding

Management of Agricultural Organizations

Innovation and Biotechnology Platforms

TRADE-MANAGEMENT

Management of Commercial Activities

- Services Management
- e-Management and Digital Marketing
- Management of Maritime Activities

Careers in Management and Accounting - Client Portfolio Manager in accounting firms

Trade and Distribution

- Marketing and Distribution of Fresh Products
- Marketing and Specialized Distribution
- Marketing Services and Customer Relations
- Distribution Logistics
- FORMAPACK - Packing and packaging

CIVIL ENGINEERING

Careers in Building and Civil Engineering Works

- Design in Metallic Architecture
- Technical Management of Real Estate Assets

This year, IUT Quimper is celebrating its 50th anniversary. Its training courses are based on real experience and the continuous improvements in the technological education sector, within the framework of national educational programmes, with adaptation to the economic environment.

IUT delivers its training through innovative theoretical and practical methods based on advanced equipment and professional role-play situations, in close collaboration with local and national companies.

In some paths, it is also possible to follow the placement-study programme, particularly for the vocational degrees, or at the level of professional degrees, or to undertake an international experience with the University Diploma in International Technological Education (DUETI). It provides a fast-track to employability or to further studies.



Practical Work
Biochemistry



Award ceremony
CREA Evening
Support for people starting
up new companies

1,350 students / 77 lecturers including 37 researchers

COURSES

TWO-YEAR TECHNICAL DEGREE (DUT)

- Business and Administration Management**
- Accounting and Financial Management
 - Human Resources Management
 - Management and Organizational Management

Logistics and Transport Management

Marketing Techniques

Bioengineering

- Biological and Biochemical Analyses
- Food and Biological Industries
(placement-study option in second^{year})

VOCATIONAL BACHELOR'S DEGREES

- Insurance, Banking, Finance: Customer Advisor**
- Customer Advisor/Manager in Banking and Insurance for the Private Market

Logistics and Flow Management

- Logistics of Food Sector Paths
- Logistics of Industrial Paths (Redon site)

Careers in Entrepreneurship

- Careers in Human Resources Management: assistant**
- Personnel and Payroll Management

Trade Distribution (Nantes site)

- Services Marketing and Customer Relationships
- Marketing and Distribution

Careers in International Trade

- Agri-food Industries: Management, Production and Promotion**
- Production Management in Agri-food Industries.

Careers in Healthcare: Technology

- Pathological Anatomy and Cytology (ACP)

Quality, Health and Safety, Environment

- Industrial risk management in the food industry (Redon site)



INSPE HIGHER NATIONAL INSTITUTE OF TEACHER TRAINING AND EDUCATION OF BRITTANY

Under the School of Trust Law, ESPEs (Higher Schools of Teacher Training and Education) became, from 1 September 2019, INSPÉs (National Institutes of Higher Education and Teaching).

INSPE of Brittany is in charge of initial training for future teachers, trainee education staff and psychologists from the national education system, and it also participates in their continuing training in close collaboration with the Regional Education Authority.

INSPE of Brittany is a UBO department. In partnership with the four Breton universities and the academy, it carries out its training missions, participates in the development and dissemination of educational research, and develops international cooperation.

Located on six training sites (Brest, Lorient, Quimper, Rennes, Saint-Brieuc and Vannes) and organized into three "clusters" (East, West and South), INSPE of Brittany, together with its partner universities, is authorized to award the national master's degree in Teaching, Education and Training Professions (MEEF) in four specialities:

- primary teaching,
- secondary teaching,
- teaching assistant,
- training theory and practice.

Twenty-six paths are linked to these four specialities. All of the training courses are based on a balance between teaching and internships, and offer an introduction to research.

1 Research Unit

CREAD Research Centre for Education, Learning and Didactics

 **2,958 students / 33 lecturer-researchers**



COURSES

MASTER'S DEGREE MEEF

Careers in Teaching,
Education and Training

Primary teaching speciality

- Primary school teacher (Brest, Quimper, Rennes, Saint-Brieuc, Vannes and Lorient)
- Primary school teacher (bilingual schools) (Saint-Brieuc)

Secondary teaching speciality

- German (Rennes)
- English (Brest, Lorient and Rennes)
- Plastic Arts (Rennes)
- Breton (Brest and Rennes)
- Chinese (Rennes)
- Documentation (Rennes)
- Physical and Sports Education (Brest and Rennes)
- Teaching in a Vocational High School (Lorient)
- Spanish (Brest and Rennes)
- History-Geography (Brest, Lorient and Rennes)
- Italian (Rennes)
- Modern Humanities (Brest and Rennes)
- Classical Humanities (Brest)
- Mathematics (Brest, Rennes and Vannes (distance learning))
- Music (Rennes)
- Philosophy (Rennes)
- Physics-Chemistry (Brest and Rennes)
- Economic and Social Sciences (Rennes)
- Life and Earth Sciences (Rennes)
- Industrial Engineering Sciences (Lorient)

Teaching Assistant speciality

- Senior Educational Advisor (Rennes)

Training Theory and Practice speciality

- Disability, difficulty and serious educational difficulty (Rennes and Saint-Brieuc)
- Research in Didactics (Quimper and Rennes)
- Visiting Musician Path (Rennes)

ESIAB HIGHER EDUCATION COLLEGE FOR AGRI-FOOD ENGINEERS IN ATLANTIC BRITTANY

The Higher Education College for Agri-food Engineers in Atlantic Brittany (ESIAB) has been authorized to award engineering degrees by the national accreditation body CTI since 2012. It offers two engineering courses.

The Microbiology and Quality speciality (student status only) is taught on the Plouzané campus. It is based on microbiology, quality management and food safety of products made from biological matrices.

With their strong multidisciplinary skills, most of ESIAB's Microbiology and Quality graduates work in quality, health and safety, environment, and the fields of training, regulation and audit in the agri-food, cosmetics and health sectors. Other activities include marketing, procurement, logistics, trade, management or research and development.

The Agri-food speciality (for students and apprentices) in partnership with the food industry training institute IFRIA West, is taught on the Quimper campus. Holders of an Agri-food degree will be able to work at both technical and managerial levels to meet companies' needs: designing and producing a biological product or a food process, managing food production, marketing, or senior management. The future graduate will be able to develop multidisciplinary engineering skills, enabling them to evolve in the agri-food sector industries, but also in related sectors such as biotechnology, health and safety and cosmetics.

In addition to CTI accreditation, these two engineering courses have earned the EUR-ACE European label which is awarded to engineering courses meeting the quality criteria developed at European level.

1 Research Unit

LUBEM University Laboratory for Biodiversity and Microbial Ecology

 250 students / 26 lecturer-researchers



Test tubes containing culture medium enabling the growth and identification of bacteria



Microbiology Students in a Practical Work Session



COURSES

ENGINEERING DEGREES

- Specialization "Microbiology and Quality"
- Specialization "Agro-food"

DOCTORAL DEGREE

- Microbiology Food Sciences

CONTINUING EDUCATION AND PLACEMENT-STUDY TRAINING



The UBO Continuing Education and Placement-Study Programme Service is a key stakeholder in skills development. Continuing vocational training makes enables people to consolidate or acquire new skills throughout their career to optimize career paths and make them more secure. It is aimed at employees and jobseekers, young people, and people in adult education through a wide range of options.

Through distance or classroom-based learning, for a few days or several months, courses leading to diplomas or qualifications, SUFCA (university department for continuing education/ placement-study programmes) offers individuals, socio-economic actors and organizations, a substantive response to their needs to acquire new skills, and thus contributes to regional and local development.

It hosts over 7,000 trainees each year in numerous courses based on the University's fields of excellence or created by a partner request. Many adults can return to studies to gain a diploma. The Validation of Previous Experience schemes, in particular the Validation of Acquired Knowledge (VAE), that are offered by all departments, are highly popular and make the University of Western Brittany a pioneering force in these learning approaches.

In 2018, SUFCA obtained FCU (Continuing Education at University) certification by Bureau Veritas which is recognized by the National Council for Employment and Vocational Training (CNEFOP).

COURSES

DAEU

- (Diploma to access university studies (scientific or literary): obtain the equivalent of the French baccalaureate

Language Diplomas and Certifications

- Our language courses are designed to be accessible to all, to individuals and companies alike, regardless of age or level of education. Several certifications in French as a Foreign Language (FLE) are available for the validation of French language skills.

Training for elected officials

- Local financial management, urban planning, law, human resources, management, communication, public policies, intermunicipality, etc.

Bespoke training for companies

- Adapted to the company's needs, these courses are given by academics or external contributors, all of whom are recognized as experts in their fields.

Health Training

- Diploma courses (DU: University Diploma, DIU: Inter-University Diploma, Capacité/DE), Short courses, DPC courses

Returning to Studies

- All UBO training courses are accessible through "returning to study" and/or by means of Validation of Acquired Experience (VAE) programmes.

Placement-Study programmes

- In an apprenticeship or professionalization contract, we offer over 50 placement-study training courses.

Find all our courses and services at www.univ-brest.fr/fc



2.4 innovative tools for access to knowledge



Exercise on model



A **SIMulation Centre, for the learning and teaching of health sciences (Cesim), is an innovative**

teaching and research structure for improving the quality of care. Equipped with patient simulator models, high-tech equipment and led by professional lecturers, Cesim **reconstructs care situations to enable "learning by doing"**. Cesim is also a research centre for medical pedagogy and medical communication, and technological assessment and development.

SIAME

The main objective of **SIAME (media engineering and support services for teaching)**, is to help transform teaching methods through support and facilitate student success,

overcome university teaching issues (skills-based approach, etc.), and to improve the quality of teaching for lecturers/lecturer-researchers and non-lecturers, individually or for a teaching team. It provides a diverse and hybrid training offer, the creation of teaching resources (teaching videos, digital tools, audiovisual multimedia resources), the development of distance education (MOOC, SPOC, screencast, digital teaching videos, online courses, MOODLE platform etc.).



Connected collaborative classroom

UBO Open Factory



Co-working space

A laboratory fostering innovation and multi-disciplinary activities, **UBO Open Factory** consists of a co-working, training and manufacturing space where numerical control machines are available to use (3D printer, laser cutting machine, digital milling machine, etc.). **Its objective:** To inspire and equip students, UBO staff, organizations (companies, associations, communities, etc.) and entrepreneurs to create innovative, inclusive and sustainable projects, in the context of digital, ecological and societal transitions. **Its activities:** digital manufacturing for prototyping, innovation training and project management support (themes: self-sufficient regions, the food of tomorrow, innovation & disability, waste recovery, innovative teaching, etc.), event management (conferences, creative "marathons", etc.) organized to create a community of actors and a project dynamic.



InMoov Robot



OPENING UP TO OTHERS

- 3.1 University and Society
- 3.2 Student Life
- 3.3 Culture - Arts

3.1 University and Society

The University of Western Brittany is a major player in regional economic development through its many collaborations with the different socio-economic actors. UBO shares its expertise with its partners and builds strong synergies with them to meet tomorrow's challenges and construct the future.

Research at UBO is a real driving force for innovation and experimentation, recognized at the national and international level, and made available to companies. Each year, over **280 partnership contracts** are signed between UBO and socio-economic actors in our various study subjects: Sea, Health, Agri-Food, Digital Technology, Human and Social Sciences... With over 15 innovative start-ups created at UBO, the university is also an environment conducive to the creation of businesses directly stemming from our laboratories. Examples include the companies Polymar, France Haliotis, Mappem Geophysics; all three have been supported by UBO since their creation.



15

Innovative Starts-up

Research and Innovation

Employability

Employability is one of the University's primary missions. Every year, UBO welcomes over **5000 students for internships and 950 for placement-study programmes in more than 2,500 partner companies!** In recent years, the university has also set up a platform, called the Career Center, which allows companies to post their job offers directly to students and recent graduates.



2,500

Partner companies

Fondation UBO

The University of Western Brittany Foundation was created primarily to strengthen relations between UBO and its socio-economic partners. It is in "doing" and in solving concrete problems that links are forged. In this way, we collectively respond to local and regional needs to enrich the dynamic. As a space for dialogue and co-construction, it must become a platform where all those who want to innovate, participate in and advance society can meet. Since its creation in 2016/2017, the Fondation has supported **more than 14 projects** for their societal, environmental or local/regional dimension.



14

UBO Foundation Projects

3.2 Student Life

STUDENT SERVICES

University personnel in different departments accompany students throughout their studies. Guidance, health, sports, languages... everything to succeed!

CAREER GUIDANCE & EMPLOYABILITY

Guidance, assistance in project development, choice of study paths, change of career path. Assistance in finding internships and employment, access to the business network, student entrepreneurship. Employability information about some of our graduates.

Contact: Cap'Avenir

HEALTH

Medical consultations: general practitioners, gynaecologists, psychiatrists. Nurse and primary care: vaccinations, STI screening, counselling services. Social service, well-being activities. Assessment of required arrangements and follow-up of students with disabilities or illnesses.

Contact: SUMPPS

LANGUAGES

Language learning (one or two foreign languages) in each faculty or school for non-language students. Free conversation workshops and language exchanges for all students in four languages, led by students in their native language. French as a Foreign Language (FLE) course for foreign students.

Contact: Pôle Langues (University Language Service)

11 LIBRARIES

Longer opening hours: Two libraries are open until 10pm on weekdays and three until 5pm on Saturdays. Assistance in document research, in groups or individually, on campus but also online or by email. Digital University Libraries available anywhere and anytime with access to thousands of electronic books and journals.

Contact: UBODOC

SPORTS

More than 50 activities, from windsurfing to sailing, to open water diving, climbing, zumba, team sports. Access to quality equipment and infrastructure: gymnasiums, swimming pools, weight rooms, sports fields.

Contact: SUAPS (sporting and physical activities)

DISABILITY

Support and specific arrangements for attending classes and sitting exams. Various disability technical aids. Study and employment access projects (with companies committed to hiring people with disabilities). A place to listen and an educational aid.

Contact: Espace Handiversité (disability advisory service)



STUDENT SOCIETIES

These societies reflect our students' dynamism and their commitment to a community or cause. All disciplines are represented and we propose a multitude of projects, some of which receive UBO support every year, for example, AGORAE, the social and solidarity grocery store.

Extracted from the database of societies labelled UBO on 30 June 2019. Access all the contacts at www.univ-brest.fr/menu/Vie+du+Campus/Associations-etudiantes/

Asso'MS - (sports management student society of Brest)

This society is for students from the sports management course. Its general objective is to defend and promote their individual or collective interests.

SETU! An trid sevenadurel e skolveur Breizh Izel

Organization of events related to Breton language and culture.

Association des Étudiant·e·s en Odontologie de Brest (Brest student dentistry society)

Distribute of the very expensive but necessary equipment to complete the surgery-dentistry academic path.

UBO Sailing Race

To enable students to discover a regatta and to learn the rules.

Broussailles

For students in the Master's degree in Biodiversity Management and Conservation, to share knowledge both inside and outside the university.

Étudiant·e·s du Master de Psychologie Représentations Sociales, Pratiques et Interventions: (students of the Master of Psychology in Social Representations, Practices and Interventions: Études Qualitatives et Quantitatives (qualitative and quantitative studies))

To make contact, assistance and cooperation easier between students and lecturers of the RESPI Master of Psychology.

Organisation pour la Promotion de l'IUP de génie Mécanique (mechanical engineering IUP Group)

To organize and promote the activities of the IUP Mechanical Engineering group. To organize company visits, presence at career fairs, the sharing of information to find internships, evenings to ensure the link between all of the department's study years....

Quimper association internationale de recherches

d'informations au sujet des études et des stages à l'étranger (society for information on international courses/internships)

To provide information on the different possible internships abroad. It also provides information on the DUETI, (the university diploma in international technological education). It also organizes various events throughout the year to inform students/answer their questions, mainly through conferences.

APASociation

To position itself as the actor of choice in the field of personalized/adapted sport in the Brest region. Awareness-raising of the different types of student disabilities.

Voyage fip

Organization and fundraising activities for a trip. Our challenges are mainly fundraising activities and encouraging the entire graduate year to partake in this project.

End of studies trip

This society organizes a vocational end of study trip for our graduate year. Our main activities involve choosing the country, budgeting, fundraising, researching cultural or business visits....

Radio U

Management of a quality student media. Tool for broadcasting the student voice in the Brest Metropolitan Océane region. Broadcasting the voice of student societies and their initiatives over the airwaves.

KUBE (Brest physiotherapy student society)

KUBE's main purpose is to defend the interests of physiotherapy students.

Gaïa

To participate in student cohesion in the Earth and Planetary Sciences (STU) path. Promote the STU Bachelor's Degree. Organize geological field trips. To act as a

bridge between students and the university. Participate in university dynamics, in collaboration with other societies.

Péda'go

To enable student cohesion and support students in their studies. Educational projects within or outside the UBO. Example: supporting primary and secondary school children in social centres (e. g. Langevin), participation in the ABAAFE rally, and other projects.

Tutorat Santé Brestois (health tutoring in Brest)

To promote equal opportunities for all in access to health studies; To provide assistance in the preparation of the first year competitive examinations in health studies, in partnership with first-year lecturers and UBO.

Association des Étudiant·e·s en Sciences de Brest (student science society)

To make connections between its members, all university students and the university administration services. To inform people about what a student society involves and its life on campus. To inform people about reforms concerning studies and university life.

Young English Speaking Student

Development of intra-university relations between LLCE (Languages, Literature and Foreign and Regional Civilizations) students from different study years from the Victor Ségalen Faculty and Brest campus; Facilitating the hosting of Erasmus students in our department.

Géoarchi

To ensure the link between the Institute of Geoarchitecture's students, graduates and teaching team - To organize field trips and study trips - To support junior design offices and lead the partner network.

La Tertulia

To enhance the Spanish LLCE path: helping students, promoting cultures of the Spanish-speaking world by rendering them accessible to all. The society is independent of any political party and religious denomination.

Sén'art

To act as a link between the various graduate years Bachelor's degree in Law-Art Market, UBO and the Pierre Jakez Hélias cluster in Quimper, by organizing economic, cultural, festive and sporting activities that are open to all.

Héraclès

To energize and promote the UBO History path. To develop cultural activities that are complementary to historians, defending their interests and developing student life through the integration of newcomers.

Association Bretoise des Étudiant-e-s en Biologie (biology student society)

To organize conferences, a guidance day, evenings along with many other student services. It also represents students at the UBO Committee meetings.

Organisation Bretoise Informatique 1 (computer sciences society)

To represent UBO computer science students. To organize on-campus activities. To provide tools for student success (supports, courses...)

Corporation des Étudiant-e-s en Médecine de Brest (medical students society)

To strengthen the links between its members and help to set up projects. To provide information about reforms in medical education and university life. Provide services to facilitate students' university studies.

Artéfac

Creation of inter-association student links. Implementation of cultural projects promoting our degree in Art History and Archaeology. Subsidy for cultural trips through the sale of goodies, cakes, tickets to events organized by the association...

Association CLIP étudiant-e-s en audiovisuel Brest audiovisual student society)

To make audiovisual material available to its members. To participate and help materially or financially towards the realization of student projects. To provide audiovisual services at a lower cost for small structures and associations that do not have the means to use professional services.

Bureau Associatif Bretois des Orthophonistes en Devenir (speech and language therapy student society)

To represent speech-language pathology students in the Faculty of Medicine, with other student associations, with the FNEO and its network and with the Fédé B union.

Handicapable (disability advisory service)

To accompany students and students and staff with disabilities in their social life on campus, their inclusion in university and in the professional environment.

Association de docteurs et doctorants juristes de Brest (doctor and legal doctoral student society)

To promote the professional and academic development of doctors and doctoral students. Participation in discussions on the status of the doctoral student. Contribution to the professional integration of its members.

Association des Étudiant-e-s Bretois en Soins Infirmier (nursing student society)

Social innovations. Student well-being

Culture Connexions

Network of students and cultural professionals from the IUP heritage path of the Pierre-Jakez HÉLIAS - Quimper cluster. To promote the image of the Institute.

'Tacle

The aim of the association 'Tacle is to create, disseminate and promote the performing arts in all its forms, from a local and transnational perspective.

Les Stapsiats (STAPS student association)

To bring together UBO STAPS students in order to defend and promote their individual or collective interests

Association Des Étudiant-e-s de Sociologie (sociology student society)

To represent sociology degree students.

Fédération des associations étudiantes de Bretagne occidentale (federation of student societies of Western Brittany)

To contribute to the organization of events on campus. To provide services to associations and students through the organization of different actions. To defend and represent students and their associations.

Corporation des Étudiants Sages-Femmes de Brest

To represent student midwives in Brest at the local and national level. To organize events and projects.

Breizh'Mousses

To raise the necessary funds for students to participate in the EDHEC Sailing Cup, as well as the planning and organization of transportation to the event site and accommodation.

ECO PLUS Society

To promote and boost the eco-management and MIASHS sciences sector in Brest. To contribute to student cohesion in economics and management.

Association Coopération Inter Droit Quimper

To promote contact and mutual support among students to improve the quality of life and work of Quimper students during their university studies.

Mana'wave

The BDE ManaWave is the IAE Brest student association. It defends their interests and represents them. It also organizes evenings, a trip, an end-of-year gala and a graduation evening. It is involved in citizenship and solidarity.

Epsilon

The association aims to revitalize and develop the psychology department by offering socio-cultural activities that complement the training of psychologists.

Une Alternative pour l'UBO (an alternative UBO)

The purpose of this society is to represent and defend the interests of UBO students within its various councils and administrative services.

TANDEM sans frontières

Student society whose aim is to welcome and support foreign students on the UBO campus.

Merscidoc

Young researchers from the Doctoral School of Marine Sciences

Sea-ti-zen

IUEM (the European Institute for Marine Studies) student society, whose main aim is to bring together the different master's years around various activities and evenings.

3.3

Culture/Arts



- Concerts
- Exhibitions
- Arts Practices Workshops
- Teaching Units of Additional Optional Courses
- Artistic internships
- Preferential rates
- Ciné-club (Cinema Club)
- Dance and music festival
- Artist residencies
- Arts-Sciences....

A university is a place of training and research, but also a place of culture and the UBO, along with the cultural service, works towards disseminating this. It gives all cultural variants their place to allow students to have access to all possible representations of reality, so that each and every one can find their place among them. We therefore offer easy access to shows, concerts and festivals; but also a programme at UBO: the concerts event "À gauche après le pont", a film club, as well as exhibitions by artists, especially young and emerging artists, in the "Les Abords" exhibition space. We also organize various cultural workshops focusing on artistic practice. Finally, if some students already have an significant artistic practice requiring special timetable arrangements, they can apply for the status of high-level artist.

Contact: www.univ-brest.fr/service-culturel



Photo credits

Erwan Amice,
Benjamin Arbellot,
Franck Betermin,
Brest Métropole,
J. Boccon-Gibod/360images,
Antoine Borzeix,
Benjamin Deroche,
Hugo Gayrard,
Mathieu Le Gall,
Istock,
Service culturel de l'UBO/
Bumpkin Island.

Content Editor
Matthieu Gallou

Realization
the UBO communication service
with the collaboration of all the
university, faculties, institutes,
schools and services.

Printing
Cloître Imprimeurs



UBO

Université de Bretagne Occidentale

 univ-brest.fr

