

University of Basrah

جامعة البصرة



First Cycle – bachelor's degree (B.Sc.) – Natural marine science

بكالوريوس علوم البحار الطبيعية

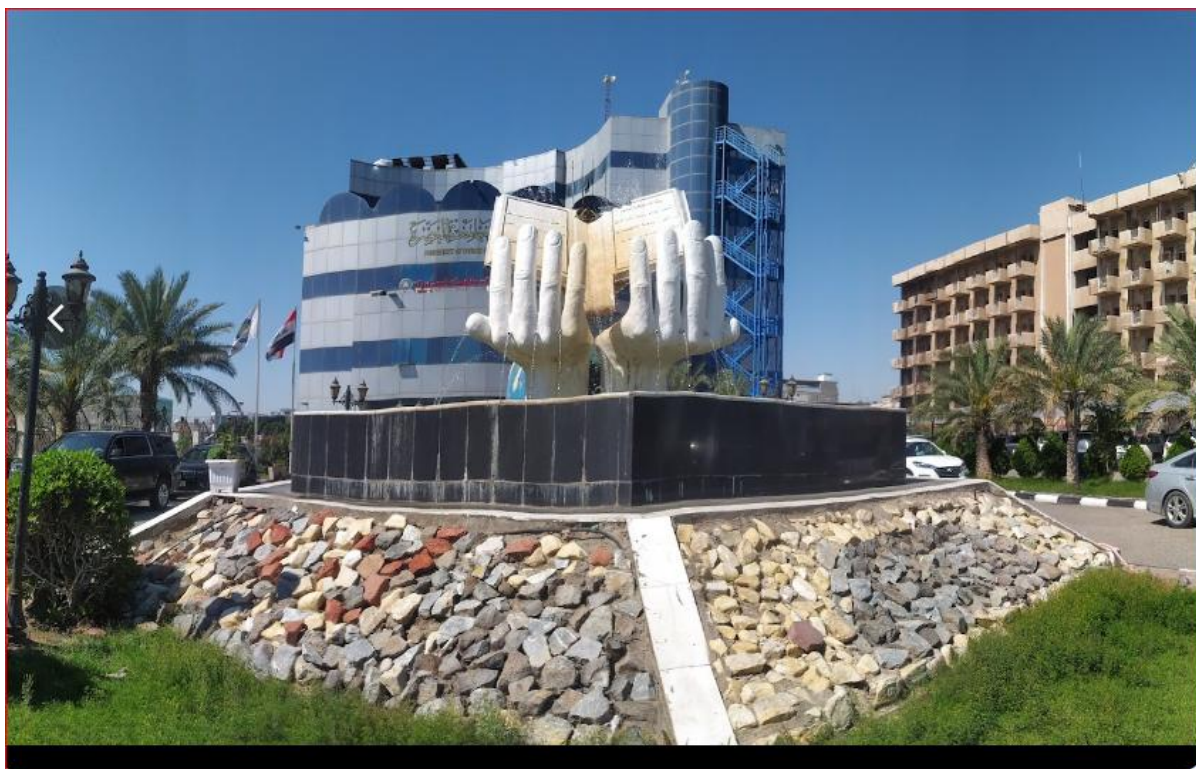


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1-Mission & Vision Statement

Vision Statement

The idea of establishing the College of Marine Sciences emerged from the reality of the need for this science, since we have a small coast where navigation traffic is crowded through the presence of many ports in this region and the export of oil, which negatively affects that region environmentally and geologically through the change that will occur in the region as well as climate change Which began to have a negative impact on the land in general and on our coasts in particular, so it was necessary for us as academics to prepare a cadre that would have the ability to manage the Iraqi coast and the waterfront and make the most of that vital area, and accordingly work began in this college, which is characterized by the determination of its members to succeed despite The difficult conditions that the college faced were able to graduate a helm of our students who possessed the skill from the Iraqi waterfront administration in all specializations.

Mission Statement

Providing part of the rare specializations in the field of natural marine sciences (for marine biology, biological evolution, marine vertebrates, and marine culture) as well as in the field of applied sciences to support the needs of society in various marine bodies.

- 1- Number of scientifically qualified human cadres in the public and private sectors in all fields of marine sciences.
- 2- Carrying out scientific research in a systematic and integrated manner, using follow-up and simulation techniques (modelling), and playing a key role in encouraging research and development in the field of marine sciences.
- 3- Opening an outlet for postgraduate studies for rare specializations.

2- Program Specification

Programme code:	BSc-Marine Science	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

Emphasis on the adoption of quality standards in conducting research in various disciplines in environmental sciences, marine and ocean sciences, and keeping pace with global scientific development in all scientific fields to support the entry of the University of Basra into international rankings, and through :

1- Providing the requirements of the educational process for students in the college, the requirements of scientific laboratories, supporting outstanding scientific research and ideas, and developing the infrastructure of the College of Marine Sciences. We are also working to maximize the college's financial resources to enhance the concept of a productive college and university.

2 - Participation in providing sustainable development research to promote sustainable development in Iraq.

3- Supporting the scientific advancement of teachers and students in various research fields.

4- Providing society and scientific institutions specialized in the environment and biodiversity with modern studies.

5- Collecting and coordinating information, data, references and various documents necessary to keep pace with the technological and scientific development in the field of college specializations.

6 -Cooperation with the scientific departments of the College of Marine Sciences, colleges and centers of the university, research institutions, various state departments and international research institutions related to the activities of the center in a way that ensures maximum benefit from the human and material resources of the college.

7- Providing scientific consultations in the fields of competence of the teachers at the center to the state departments, the private sector and the relevant authorities.

8- Establishing and developing cultural and scientific relations with bodies and departments of similar specialization, including concluding scientific agreements and exchanging experiences in order to keep pace with modern technological and scientific developments and exchange information and expertise.

9- Organizing conferences, seminars, scientific meetings, seminars and training courses, and ensuring the participation of researchers in conferences and seminars held by the College of Marine Sciences, colleges and scientific centers inside and outside the country.

10- Preparing and training the necessary cadre of researchers and their assistants and striving to develop their expertise and knowledge.

Participate in issuing scientific reports, bulletins and journals.

11- Participation in community service and development through direct and continuous interaction with its economic and cultural institutions and providing scientific and technical advice to these institutions, which leads to the community benefiting from the energies and capabilities available in the college.

3-Program Objectives

1. To provide a comprehensive education in marine science biology that stresses scientific reasoning and problem solving across the spectrum of disciplines within biology.
2. To prepare students for a wide variety of post-baccalaureate paths, including graduate school, professional training programs, or entry level jobs in any area of biology
3. To provide extensive hands-on training in natural sciences like biology, aquaculture, pollution, and diversity.

4-Student Learning Outcomes

Distinguished programs in education and training in the field of natural marine sciences. Quality in terms of teaching and research methodology using international developments in the fields of teaching and scientific research for marine biological aspects .The methodology in exploring the sources of marine wealth to support the national economy .

Level one

General Physics, General Chemistry, Computer, English Language, Oceanography, Marine Art, General Geology, General Biology, Fundamental of Ecology, Mathematics, Marine law and Sport.

Level two

Surveying, Introduction to Algae, Microbiology, Marine ecology, Invertebrate, Biostatistics, Systematic of marine biology, Fundamental of Ichthyology, Marine chemistry, Environmental pollution, Democracy and Human right and Meteorology.

Level three

Basics of swimming and scientific diving, Physiology of marine biology, Systematic of Ichthyology, Marine fisheries, Wealth and marine resources, Scientific research writing, Environmental of freshwater and estuaries, Biodiversity, Management of coastal marine, Oil pollution, Biochemistry and Environmental toxicology.

Level four

Aquatic pathology, Fish culture, Biotechnology, Plankton, Graduation projects, Nanotechnology, Marine Benthos, Biology productivity, Wetland, Climant changes Tide and Port management.

5-Academic Staff

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6-Credits, Grading and GPA

Credits

Basrah University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME				
مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب - قيد المعالجة	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				

Number decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$\text{CGPA} = [(1^{\text{st}} \text{ module score} \times \text{ECTS}) + (2^{\text{nd}} \text{ module score} \times \text{ECTS}) + \dots] / 240$$

7- Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MSPH 101	General Physics	77	98	7.00	S	
MSCH102	General Chemistry	77	98	7.00	B	
UBCO 106	Computer	77	48	5.00	B	
UBEN 107	English Language	62	38	4.00	B	
MSMS 105	Oceangraphy	47	28	4.00	C	
MSMA 108	Marine Art	47	28	3.00	S	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MSGE 103	General Geology	77	28	7.00	S	
MSBI 104	General Biology	77	28	7.00	C	
MSFE 109	Fandimental of Ecology	62	28	6.00	C	
MSMT 110	Mathematics	62	38	4.00	B	
MSLA 111	Marine law	32	43	3.00	B	
UBSP 112	Sport	32	43	3.00	S	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
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MSSU 204	Surveying	62	88	6.00	B	
NAMA 206	Introduction to Algae	77	88	6.00	C	
NAMA 207	Microbiology	62	38	4.00	C	
MSME 209	Marine ecology	62	63	5.00	C	
NAMA 213	Invertebrate	77	73	6.00	C	
NAMA 214	Biostatistics	32	43	3.00	B	

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
NAMA 208	Systematic of marine biology	62	88	6.00	C	
NAMA 209	Fundamental of Ichthypolgy	62	113	5.00	C	
MSMC 211	Marine chemistry	62	88	6.00	B	
MSEP 212	Enviromental pollution	62	88	6.00	C	
UBDH 201	Democracy and Humab right	32	68	4.00	S	
MSME 205	Meteorology	17	58	3.00	s	

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MSSW 301	Basics of swimming and scientific diving	62	38	4.00	B	
NAMA 304	Physiology of marine biology	77	73	6.00	C	
NAMA 305	Systematic of Ichthyology	62	88	6.00	C	
NAMA 307	Marine fisheries	62	88	6.00	B	
NAMA 309	Wealth and marine resources	32	38	4.00	C	
MSRW 317	Scientific research writing	47	53	4.00	E	

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MSFE 311	Enviromental of freshwater and estuaries	62	63	5.00	C	
NAMA 312	Biodiversity	62	88	6.00	C	
NAMA 306	Management of coastal marine	62	63	5.00	C	
MSOP 308	Oil pollution	62	63	5.00	C	
MSBC 310	Biochemistry	62	63	5.00	B	
NAMA 315	Environmental toxicology	47	53	4.00	E	

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
NAMA 401	Aquatic pathology	62	88	6.00	C	
NAMA 403	Fish culture	62	88	6.00	C	
NAMA 405	Biotechnology	62	63	5.00	B	
NAMA 407	Plankton	77	73	6.00	C	
NAMA 409	Graduation projects	62	13	3.00	E	
MSNT 421	Nanotechnology	32	68	4.00	S	

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
NAMA 402	Marine Benthos	62	88	6.00	C	
NAMA 404	Biology productivity	62	88	6.00	C	
NAMA 406	Wetland	62	88	6.00	B	
NAMA 416	Climate changes	62	13	3.00	E	
NAMA 419	Tide	32	43	4.00	E	
MSPM 420	Port management	62	88	5.00	S	

8-Contact

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