

UNIVERSITY of ALQASIM GREEN جامعة القاسم الخضراء

Bachelor of Science Honours (B.Sc. Honours) -Biology

بكالوريوس - علوم الحياة



جدول المحتويات | Table of Contents

- 1. Mission & Vision Statement
- 2. Program Specification
- 3. Program Goals
- 4. Student learning outcomes
- 5. Academic Staff
- 6. Credits, Grading and GPA
- 7. Modules
- 8. Contact

بيان المهمة والرؤية | مواصفات البرنامج | أهداف البرنامج | مخرجات تعلم الطالب | الهيئة التدريسية | الاعتمادات والدرجات والمعدل التراكمي | المواد الدراسية |

1. Mission & Vision Statement

Vision Statement

The biology academic staff of the Natural and Behavioral Sciences Division at Koya University believe that students come to understand the discipline of biology through a combination of course work, laboratory experiences, research, and fieldwork. The combination of instructional methods leads students to a balanced understanding of the scientific methods used by biologists to make observations, develop insights and create theories about the living organisms that populate our planet. Small class sizes within the biology program foster a close working relationship between academic staff and students in an informal and nurturing atmosphere.

Mission Statement

The biology academic staff pursues a multifaceted charge at Koya University. The Program seeks to provide all biology students with fundamental knowledge of biology, as well as a deeper understanding of a selected focus area within the biological sciences. The curriculum and advising have been designed to prepare graduates for their professional future, whether they choose to work as field biologists specializing in botany or wildlife, or to pursue advanced degrees in the life sciences or health sciences. The biology program also provides the necessary fundamental knowledge of the life science to support the Nursing degree, the Environmental Studies degree, and the Associate of Science degree in Forest Technology. In addition, biology courses provide a key laboratory science experience for those students seeking to complete the general education requirements.

2. **Program Specification**

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

Biology is a wonderfully wide-ranging subject, and Leeds, with one of the UK's largest and most diverse biology teaching groups, is well equipped to deliver. The emphasis of the programme is the whole organism to which everything is related, be it the molecules that form proteins or communities of organisms in an ecosystem. The degree is popular - for some it's the breadth of the subject that appeals, for others it's a path to specialisation. All students have the opportunity to transfer onto our specialist degrees in Genetics, Zoology, and Ecology at the end of the first year.

Level 1 exposes students to the fundamentals of Biology, suitable for progression to all programmes within the biology programme group. Programme-specific core topics are covered at Level 2 preparing for research-led subject specialist modules at Levels 3 and 4. A Leeds Biology graduate is therefore trained to appreciate how research informs teaching, according to the University and School Mission statements.

At Levels 2, 3 and 4 students are free to choose more than half of their module credits with the proviso a range of modules are selected that reflect the complexity of life forms from molecules, through organisms, both plants and animals, to populations to ensure the breadth of knowledge expected of a graduate with a biology degree. This allows students to develop their own wide-ranging interests in organismal biology. Decisions on what to study are made with input from personal tutors.

The research ethos is developed and fostered from the start via practicals, which are either embedded in lecture modules or taught in dedicated practical modules, research seminars and tutorials. There is a compulsory field course in Level 1, which students must pass in order to progress into Level 2, and optional field courses in Levels 2, 3 and 4. At Level 4 all students carry out an independent research project, which may be a xx credit library or data analysis project, or a xx credit field or laboratory based project.

Academic tutorials are held at Levels 1 and 2 with the same tutor, who is also the personal tutor, providing continuity and progressive guidance. Level 1 and 2 tutorials include a number of workshops to teach skills, e.g. library use and presentation skills, followed by assessed

exercises, e.g. essays and talks, as opportunities to practice these skills in a subject-specific context.

International years and Industrial placements are also offered and individual needs are discussed with the appropriate tutor and accommodated wherever possible.

3. **Program Goals**

- 1. To provide a comprehensive education in 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 electronic technology, statistical analysis, laboratory skills, and field techniques
- 4. To provide thorough training in written and oral communication of scientific information
- 5. To enrich students with opportunities for alternative education in the area of biology through undergraduate research, internships, and study-abroad

4. Student Learning Outcomes

Biology is the study of the organization and operation of life at the molecular, cellular, organism, and population levels. Graduates obtain information on the historical, technical and social aspects of biology and utilize basic knowledge toward realizing broader concepts. The Department offers a Bachelor of Science in Biology with a concentration in General Biology; Pre-medicine / Pre-dentistry; Biotechnology / Molecular Biology and a minor in Secondary Education that leads to a Public Instruction License. Additionally, the Department offers courses to a large number of students from other departments and supports pre-professional programs. The Biology curriculum and experiences are designed to prepare students, in part, for entry into professional health programs, graduate studies, technical careers and education

Outcome 1

Identification of Complex Relationships

Graduates will be able to illustrate the structure and function of cellular components and explain how they interact in a living cell.

Outcome 2

Oral and Written Communication

Graduates will be able to formally communicate the results of biological investigations using both oral and written communication skills.

Outcome 3

Laboratory and Field Studies

Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.

Outcome 4

Scientific Knowledge

Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.

Outcome 5

Data Analyses

Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.

Outcome 6

Critical Thinking

Graduates will be able to use critical-thinking and problem solving skills to develop a research project and/or paper.

5. Academic Staff

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6. Credits, Grading and GPA

Credits

Koya 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 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					

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

NB 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 Grade Point Average (GPA)

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

GPA of a 4-year B.Sc. degrees:

GPA = [(1st module score x ECTS) + (2nd module score x ECTS) +] / 240

7. Curriculum/Modules

Code	Module	SSWL	USSWL	ECTS	Туре	Pre-request
Bio1101	Genral zoology	87	88	7.00	С	

Semester 1 | 30 ECTS

Bio1102	Organic Chemistry	73	52	5.00	В	
Bio1103	General Mathematics	45	55	4.00	В	
Bio1104	Biophysics	73	77	6.00	В	
Bio1105	Arabic Language	45	55	4.00	В	
Bio1106	Human Right and Democracy	45	55	4.00	В	

Semester 2 | 30 ECTS

Code	Module	SSWL	USSWL	ECTS	Туре	Pre-request
Bio1101	Genral zoology	87	88	7.00	С	
Bio1102	Organic Chemistry	73	52	5.00	В	
Bio1103	General Mathematics	45	55	4.00	В	
Bio1104	Biophysics	73	77	6.00	В	
Bio1105	Arabic Language	45	55	4.00	В	
Bio1106	Human Right and Democracy	45	55	4.00	В	

Semester 3 | 30 ECTS

Code	Module	SSWL	USSWL	ECTS	Туре	Pre-request
Bio23113	Entomology	87	38	5.00	С	
Bio23214	Plant Anatomy	87	38	5.00	С	

Bio23015	Invertebrates	87	38	5.00	С	
Bio23016	Plant Groups	87	38	5.00	С	
Bio23117	Fundamental of Biochemistry	87	38	5.00	С	
Bio23118	fundamental of Microbiology	87	38	5.00	С	

Semester 4 | 30 ECTS

Code	Module	SSWL	USSWL	ECTS	Туре	Pre-request
Bio24219	Entomology	87	38	5.00	С	
Bio24320	Plant Taxonomy	87	38	5.00	С	
Bio24021	Parasitology	87	38	5.00	С	
Bio24222	Biochemistry Advance	87	38	5.00	С	
Bio24223	Microbiology II	87	38	5.00	С	
BIO24224	Cell Biology	87	38	5.00	С	

Semester 5 | 30 ECTS

Code	Module	SSWL	USSWL	ECTS	Туре	Pre-request
Bio35025	Genetics	87	38	5.00	С	
Bio35026	Ecology	87	38	5.00	С	
Bio35027	Histology	87	38	5.00	С	

Bio35128	Fundamental of Mycology I	87	38	5.00	С	
Bio35429	Plant Physiology	87	38	5.00	С	
Bio35030	Immunology	87	38	5.00	С	

Semester 6 | 30 ECTS

Code	Module	SSWL	USSWL	ECTS	Туре	Pre-request
Bio36031	Pollution	87	38	5.00	С	
Bio36032	Animal Physiology	87	38	5.00	С	
Bio36233	Mycology II	87	38	5.00	С	
Bio36334	Microbiology (Aquatic and Soil)	87	38	5.00	С	
Bio36435	Microbial Physiology	87	38	5.00	С	
Bio36036	Pathological analysis	87	38	5.00	С	

Semester 7 | 30 ECTS

Code Module	SSWL	USSWL	ECTS	Туре	Pre-request
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Bio47037	Molecular Biology	87	38	5.00	С	
Bio47038	pathogenic Bacteriology	87	38	5.00	С	
Boo47539	Food Microbiology	87	38	5.00	С	
Bio47040	Comparative Anatomy	87	38	5.00	С	
Bio47041	medical plant	87	38	5.00	С	
Bio47042	Research Project	87	38	5.00	С	

Semester 8 | 30 ECTS

Code	Module	SSWL	USSWL	ECTS	Туре	Pre-request
Bio48643	Microbial Genetics	87	38	5.00	С	
Bio48044	Virology	87	38	5.00	С	
Bio48645	Industrial Microbiology	87	38	5.00	С	
Bio48046	Hematology	87	38	5.00	С	
Bio48047	antibioces	87	38	5.00	С	
Bio48048	Research Project	87	38	5.00	С	

8. Contact

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ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

