

Republic of Iraq  
Ministry of Higher Education & Scientific Research  
Supervision and Scientific Evaluation Directorate  
Quality Assurance and Academic Accreditation

## Academic Program Specification Form For The Academic

University: *Anbar*  
College: *Education for Pure Science*  
Department: *Biology*  
Date Of Form Completion : *10/6/2021*

Prof. Dr. Abdul Rahman  
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Dean's Name

Dean's Assistant  
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Date: *26/6/2021*

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Quality Assurance And University Performance  
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Date: *14/6/2021*

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# TEMPLATE FOR PROGRAMME SPECIFICATION

## HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### PROGRAMME SPECIFICATION

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the programme.

<b>1. Teaching Institution</b>	University of Anbar
<b>2. University Department/Centre</b>	College of education for pure science-Department of Biology
<b>3. Programme Title</b>	Education Biology Sciences
<b>4. Title of Final Award</b>	Bachelor of Education Biology Sciences
<b>5. Modes of Attendance offered</b>	Quarterly
<b>6. Accreditation</b>	Nothing
<b>7. Other external influences</b>	School application - practical graduation research projects
<b>8. Date of production/revision of this specification</b>	10/6/2021
<b>9. Aims of the Programme</b>	
<ol style="list-style-type: none"><li>1. Achieving the specified standards for the quality of material, human, technical and financial resources.</li><li>2. Providing an efficient administrative staff that knows its duties and powers according to the work structures and regulations, in which the requirements of the job description are fulfilled.</li><li>3. Providing a specialized teaching staff who is fluent in using modern techniques and methods in education with good job satisfaction.</li><li>4. Preparing academic programs in accordance with international academic standards and providing their knowledge, training and technical requirements.</li><li>5. Preparing students with scientific, practical and educational knowledge that meets the needs of the labor market.</li><li>6. Paying attention to scientific research in terms of laboratory, research and researcher in order to achieve a distinguished research reputation locally and globally.</li><li>7. Research and professional openness to community institutions to meet their needs and aspirations.</li><li>8. Evaluate all individuals and processes to ensure quality performance and continuous improvement.</li></ol>	

## **10. Learning Outcomes, Teaching, Learning and Assessment Methods**

### **A. Knowledge and Understanding**

A1. Enable the student to acquire theoretical knowledge of biology.

A2. Empowering the student how to teach and ways of communicating scientific information to students.

A3. The student's knowledge of the methods of measurement and evaluation and methods of modern teaching methods in biology.

A4. The student is acquainted with the educational material by providing it electronically in the virtual classroom. In addition to enabling the student to know the learning theories related to the ages of students for the secondary school stage.

### **B. Subject-specific skills**

B1. Gaining knowledge and enriching the student with the methods of laboratory work.

B2. Orienting the student to the scientific method in solving all scientific problems.

B3. Knowing the objectives and origins of the art of teaching biology.

B4. Enabling students to acquire the skills of using virtual classrooms

### **Teaching and Learning Methods**

1. The method of listening and thinking deeply in order to understand the problem to solve it.

2. The method of scientific discussion and meaningful dialogue.

3. Adopting the method of monthly and final exams and submitting weekly reports.

### **Assessment methods**

1. The treatment method using final scores.

2. Random and surprise tests.

3. Teaching tasks in the virtual classroom.

### **C. Thinking Skills**

C1. Adopting the method of dialogue between the student and the professor.

C2. Interest in research projects and preparing organized reports

C3. Adopt the method of discussion. (Performance tests and seminars).

C4. Adopting e-learning to provide an interesting and flexible learning environment.

### **Teaching and Learning Methods**

1. Method of application in research laboratories
2. Adopting the method of constructive dialogue and discussion
3. Adopt the trial-and-error method.
4. The adoption of multimedia in the virtual classes (image, text, audio, video)

### **Assessment methods**

1. Preparation of the seminar (graduation research)
2. Adoption of the grading method as a basis in the evaluation process.
3. Adoption of the test method.
4. Adopting the method of discussions and dialogues between the students and the professor.
5. Create a test task in the virtual classes.

### **D. General and Transferable Skills (other skills relevant to employability and personal development)**

D1- That the student benefit from his learning and embody this in his personal and professional development.

D2- That the student is able to employ the knowledge he receives during the study stage.

D3- That the student benefit from theoretical knowledge in employing the teaching profession and mastering it in a concept-based manner.

Fundamentals of teaching biology.

D4 - Skills of modern technologies in communication, documentation and communication.

### **Teaching and Learning Methods**

1. Field visits in laboratories.
2. Scientific application in laboratories.
3. Take advantage of graduation research.
4. Presentation and presentation of educational content in virtual classes using multimedia (video, recorded lecture).

### **Assessment Methods**

1. Articles and periodical research
2. The interview
3. Final exams
4. Determining study tasks and duties periodically and regularly in the virtual classroom

## 11. Programme Structure

Level/ Year	Course or Module Code	Course or Module Title	Weekly hours	
			Lec.	Lab.
First	BIO121	Principles of zoology	2	2
	BIO122	Cytology 1	1	2
	CHE111	Analatical chemistry	2	2
	UOA137	Arabic language	2	-
	AGES101	Geology	2	-
	UOA135	Human rights	1	-
	EPS101	Educational Psychology	2	-
	BIO128	Principles of plant	2	2
	BIO129	Cytology 2	1	2
	CHE121	Organic chemistry	2	2
	UOA140	English language	2	-
	UOA141	Computer	2	2
	UOA136	democracy	2	-
	EPS102	Bases of education	2	-
Second	BIO235	Invertebrates 1	2	2
	BIO236	Histology	2	2
	BIO237	Comparative plant anatomy	2	2
	BIO238	Algae	2	2
	BIO239	Research methodology	2	-
	EPS202	Growth psychology	2	-
	UOA140	English language	2	-
	BIO241	Invertebrates 2	2	2
	BIO242	Embryology	2	2
	BIO243	Biochemistry	2	2
	BIO244	Archegoniates	2	2
	BIO245	Biostatistics	2	-
	EPS201	Educational administration	2	-

Third	BIO347	Entomology	2	2
	BIO348	Comparative anatomy of Chordates	2	2
	BIO349	Genetics 1	2	2
	BIO350	Microbiology	2	2
	BIO351	Plant morphology	2	2
	BIO352	Microscopic preparation	1	2
	EPS311	Educational curriculum	2	-
	BIO354	Applied Entomology	2	2
	BIO355	Fungi	2	2
	BIO356	Taxonomy	2	2
	BIO357	Biotechnology	2	2
	BIO358	Animal physiology	2	2
	BIO359	Genetics 2	2	2
	EPS312	Counseling and mental health	2	-
	UOA140	English language	2	-
	Fourth	BIO461	Parasitology 1	2
BIO462		Applied bacteriology	2	2
BIO463		Plant physiology	2	2
BIO464		Ecology	2	2
BIO465		Molecular biology	2	2
EPS411		Measurement and evaluation	2	-
EPS412		Classroom viewing	2	-
UOA140		English language	2	-
BIO469		Parasitology 2	2	2
BIO470		Environmental pollution	2	2
BIO471		Immunology	2	2
BIO472		Public health	2	-
BIO474		Cellular metabolism	2	2
BIO473		Elective	2	-
EPS413		practical School application	-	4
EPS414		Research project	-	6

### **13. Personal Development Planning**

1. Using modern scientific sources.
2. Using rapid communication networks to transfer information such as the Internet.
3. Visits and practical practices in service laboratories.
4. Acquisition of scientific and modern experiences and skills in the field of modern technical communication

### **14. Admission criteria**

1. Admission according to the general and central average system.
2. Admission to departments is according to the student's desire and is modified.
3. It is a condition for a graduate of the preparatory school and the scientific stream exclusively.
4. The accepted student's personal and mental integrity and freedom from physical impairments

### **15. Key sources of information about the programme**

1. Curriculum books approved by the Sectorial Committee of the Faculties of Education for Pure Sciences.
2. Helping books.
3. Books and archaeological resources / sources in the English language.
4. Additional sources from the Internet.
5. The training courses held by the university on e-learning platforms.

## Curriculum Skills Map

				Programme Learning Outcomes															
Year/ Level	Course Code	CourseTitle	Core / Option	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
First	BIO121	Principles of zoology	Core	✓	✓	✓		✓				✓	✓				✓		
	BIO122	Cytology 1	Core	✓	✓	✓		✓				✓	✓				✓		
	CHE111	Analatical chemistry	Option		✓	✓		✓	✓				✓				✓		
	UOA137	Arabic language	Core				✓				✓			✓		✓			
	AGES101	Geology	Option		✓				✓								✓		
	UOA135	Human rights	Core				✓			✓				✓					✓
	EPS101	Educational Psychology	Core				✓			✓									✓
	BIO128	Principles of plant	Core	✓	✓	✓		✓				✓	✓					✓	
	BIO129	Cytology 2	Core	✓	✓	✓		✓				✓	✓					✓	
	CHE121	Organic chemistry	Option		✓	✓		✓	✓				✓					✓	
	UOA140	English language	Core		✓					✓					✓		✓		
	UOA141	Computer	Core		✓		✓			✓						✓			
	UOA136	democracy	Core				✓		✓					✓					✓
	EPS102	Bases of education	Core				✓		✓					✓					✓



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Year/ Level	Course Code	CourseTitle	Core / Option	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development				
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4	
Second	BIO235	Invertebrates 1	Core	✓	✓	✓		✓				✓	✓				✓			
	BIO236	Histology	Core	✓	✓	✓		✓				✓	✓				✓			
	BIO237	Comparative plant anatomy	Core	✓	✓	✓		✓				✓	✓				✓			
	BIO238	Algae	Core	✓	✓	✓		✓				✓	✓				✓			
	BIO239	Research methodology	Option				✓		✓				✓				✓	✓		
	EPS202	Growth psychology	Core				✓			✓		✓					✓		✓	
	UOA140	English language	Core		✓						✓					✓	✓	✓		
	BIO241	Invertebrates 2	Core	✓	✓	✓		✓				✓	✓				✓			
	BIO242	Embryology	Core	✓	✓	✓		✓				✓	✓				✓			
	BIO243	Biochemistry	Option	✓	✓	✓		✓				✓	✓				✓			
	BIO244	Archegoniates	Core	✓	✓	✓		✓				✓	✓				✓			
	BIO245	Biostatistics	Option	✓	✓	✓		✓	✓				✓				✓			
	EPS201	Educational administration	Core				✓			✓		✓					✓	✓	✓	✓

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				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
Third	BIO347	Entomology	Core	√	√	√		√	√			√	√				√		
	BIO348	Comparative anatomy of Chordates	Core	√	√	√		√	√			√	√				√		
	BIO349	Genetics 1	Core	√	√	√		√	√			√	√				√		
	BIO350	Microbiology	Core	√	√	√		√	√			√	√				√		
	BIO351	Plant morphology	Core	√	√	√		√	√			√	√				√		
	BIO352	Microscopic preparation	Core	√	√	√		√	√			√	√				√		
	EPS311	Educational curriculum	Core				√			√	√			√	√	√	√	√	√
	BIO354	Applied Entomology	Core	√	√	√		√	√			√	√				√		
	BIO355	Fungi	Core	√	√	√		√	√			√	√				√		
	BIO356	Taxonomy	Core	√	√	√		√	√			√	√				√		
	BIO357	Biotechnology	Core	√	√	√		√	√			√	√				√		
	BIO358	Animal physiology	Core	√	√	√		√	√			√	√				√		
	BIO359	Genetics 2	Core	√	√	√		√	√			√	√				√		
	EPS312	Counseling and mental health	Core				√			√				√		√			
	UOA140	English language	Core		√					√					√	√			√

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Year/ Level	Course Code	CourseTitle	Core / Option	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development				
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4	
Fourth	BIO461	Parasitology 1	Core	√	√	√		√	√			√	√				√			
	BIO462	Applied bacteriology	Core	√	√	√		√	√			√	√				√			
	BIO463	Plant physiology	Core	√	√	√		√	√			√	√				√			
	BIO464	Ecology	Core	√	√	√		√	√			√	√				√			
	BIO465	Molecular biology	Core	√	√	√		√	√			√	√				√			
	EPS411	Measurement and evaluation	Core				√										√	√	√	√
	EPS412	Classroom viewing	Core				√			√	√			√	√	√	√	√	√	√
	UOA140	English language	Core		√						√				√	√				√
	BIO469	Parasitology 2	Core	√	√	√		√	√			√	√				√			
	BIO470	Environmental pollution	Core	√	√	√		√	√			√	√				√			
	BIO471	Immunology	Core	√	√	√		√	√			√	√				√			
	BIO472	Public health	Core	√	√	√		√	√			√	√				√			
	BIO474	Cellular metabolism	Core	√	√	√		√	√			√	√				√			
	BIO473	Elective	Option	√	√	√		√	√			√	√				√			
	EPS413	practical School application	Core				√			√	√			√	√	√	√	√	√	√
	EPS414	Research project	Core		√	√		√					√	√			√			

