

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra- curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Al Qasim Green University.....

Faculty/Institute: College of Science.....

Scientific Department: pathological analysis.....

Academic or Professional Program Name: . Bachelor's
degree... Pathological Analysis Sciences..... **Final Certificate**

Name: Bachelor's degree... pathological analysis

Academic System: courses

Description Preparation Date: 2/3/2025

File Completion Date 2/3/2025

Signature:

Head of Department Name:

Date:

Signature:

Scientific Associate Name:

Date:

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance

Department: Date:

Signature Approval:

.1 Program Vision

The College of Science seeks to prepare graduates in the field of pathological analysis to work in government departments and benefit from specialization in the practical and applied field.

.3 Program Objectives

1. Knowledge and understanding of analysis science and related local, regional and global standards.
2. Scientific and research skills that enable identifying all types of factors affecting human health and organisms.
3. Research and thinking skills, as well as analysis, enable solving problems related to diseases that affect living organisms, especially the organisms race, in accordance with approved international standards.
4. Employment and self-development skills enable competition with others in the labor market.
5. Academic and research skills that enable competition in postgraduate studies.

.4 Program Accreditation

Nothing

.5 Other external influences

Nothing

.6 Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
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Institution Requirements	43	121		
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	Yes			
Other				

* This can include notes whether the course is basic or optional.

Year/Level	Course Code	Course Name	Credit Hours		
2022-2023 First	1		2/theoretic	2/3practical	al
	Path-111	principles of microbiology	2	2	3
	Path-112	Human cytology	2	2	3
	Path-113	Analytical chemistry	2	2	3
	Path-114	Occupational laboratory safety	2		2
	Sci-101	Computer	2	2	2
	Uni-101	English Language	2		2
	Path-121	Principle of pathological analysis	2	2	3
	Path-122	Human anatomy	2	2	3
	Path-123	Medical physics	2	2	3
	Path-124	Statistics	2		2
	Uni-103	Human Rights & Freedom & democracy	2		2
	Uni-102	Arabic language	2		2

Year/Level	Course Code	Course Name	Credit Hours		
2023-2024 /Second			2/theoretical	2/3practical	
	Path-211	human histology	2	2	3
	Path-212	pathogenic bacteriology	2	2	3
	Path-213	medical virology	2	2	3
	Path-214	principles of physiology	2	2	3
	Path-215	parasitic protozoa	2	2	3
	Path-221	tissue culture	2	2	3
	Path-222	medical mycology	2	2	3
	Path-223	principles of immunology	2	2	3
	Path-224	medical physiology	2	2	3
	Path-225	parasitic helminths	2	2	3
	Path-226	Biochemistry	2	2	3
2024-2025 /Third	3		2/theoretical	2/3practical	2/theoretical
	Path-311	infectious diseases	2	2	3
	Path-312	clinical immunology	2	2	3
	Path-313	medical molecular biology	2	2	3
	Path-314	pathological analyses	2	2	3
	Path-315	microbial diagnosis	2	2	3
	Path-321	research methodology	2		2
	Path-322	medical genetics	2	2	3
	Path-323	enzymology	2	2	3
	Path-324	Antibiotics	2	2	3
	Path-325	hematology	2	2	3
2025-2026 /Fourth	4		2/theoretical	2/3practical	2/theoretical
	4/1	bioinformatics	2	2	3
	4/1	blood diseases	2	2	3
	4/1	clinical chemistry	2	2	3
	4/1	medical biotechnology	2	--	2
	4/1	genetic engineering	2	2	3
	4/1	Research Project	2	--	2
	4/1	endocrinology	2	2	3

	4/2	pathology	2	--	2
	4/2	histopathology	2	2	3
	4/2	embryology	2	23	
	4/2	toxicology	2	2	3
	4/2	epidemiology	2	2	3
	4/2	Research Project	2	2	3

.8 Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	<p>1- Enabling students to obtain knowledge and understanding of the intellectual and skill framework of the pathological analysis Department</p> <p>A2 - Enabling students to obtain knowledge and understanding of the ethics of the pathological analysis profession and applied medical sciences</p> <p>A3 - Enabling students to obtain knowledge and understanding of pathogens</p> <p>A4 - Enabling students to obtain knowledge and understanding of pathogens and their transmission methods</p> <p>A5 - Enabling students to obtain knowledge and understanding of the physical, chemical and biological causes affecting humans</p> <p>A6 - Enabling students to obtain knowledge and understanding of microorganisms and the environment affecting human health</p>
Skills	
- Enabling students to solve problems related to pathological analysis	
Ethics	
- Developing students' abilities to share ideas	
10	

.9 Teaching and Learning Strategies

Providing students with the basics and additional topics in-depth with the previous learning outcomes of skills, to solve scientific problems at the scientific level in various fields of biology.

- Applying topics studied theoretically
- Asking students during practical lessons to conduct some scientific and research investigations under the supervision of their teachers
- Visiting scientific laboratories by academic staff and scientific committees in the department and college. The program in general.

.10 Evaluation methods

Daily and monthly exams

- Weekly reviews and participation grades for academic topics
- Grades for weekly reports and activities
- Mid-term and final exams

.11 Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Biology	Microbiology			-	
Assistant Professor	Biology	Histology			-	
Assist. Professor	Biology	zoology			-	
Assistant Professor	Biology	Plant physiology			-	
Assistant professor	Biology	Medical microbiology			-	
Assistant Professor	Arabic	Arabic poetry			-	
Assistant Professor	Biology	Parasites			-	
Assistant Professor	Chemistry sciences	Organic chemistry			-	
Assistant Professor	Biology	Animal physiology			-	
Teacher	Biology	Environment			-	
Assistant Professor	Physics Science	Medical physics			-	
Assistant Professor	Special law	Law personal conditions			-	
Teacher	Political science	Political science			-	
Teacher	Medical microbiology	Bacterial genetics			-	
Teacher	Mathematics	algebra			-	
Teacher	Physics Science	Medical physics			-	

Teacher	Microbiology	viruses			-	
Teacher	Arabic	Methods of teaching the Arabic language			-	
Teacher	Computer	Computer software			-	
Teacher	English	Teaching methods			-	
Teacher	Chemistry sciences	analytical chemistry			-	
Assistant teacher	Chemistry Science	Biochemistry			-	
Assistant teacher	Biology	Pathogenic bacteria			-	
Assistant teacher	Agricultural Sciences	Soil			-	
Assistant teacher	Agricultural Sciences	Anatomy of a plant			-	
Assistant teacher	Biology	Plant physiology			-	
Teacher	Biology	Zoology			-	
Assistant teacher	Biology	Microbiology			-	
Assistant teacher	Biology	Bacteria			-	

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

.12 Acceptance Criterion
Central admission according to the requirements of the Ministry of Higher Education and Scientific Research

.13 The most important sources of information about the program
<p>The central library at the university and college</p> <ul style="list-style-type: none"> • Internet information network • Experiences of Arab and international universities • Current curriculum

.14 Program Development Plan
<ul style="list-style-type: none"> • Developing students' abilities in research and investigation through field visits to health institutions and educational laboratories, as well as projects related pathological analysis . • Encouragement to visit the library weekly • Reviewing reference books, sources, and scientific journals in the field of specialization

Program Skills Outline														
				Required program Learning outcomes										
Yea r/L evel	Cou rse Co de	Course Name	Basic or optional	Knowledge				Skills				Ethics		
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3
2022-2023 first		principles of microbiology	Basic											
		Human cytology	Basic											
		Analytical chemistry	Basic											
		Occupational laboratory safety	Optional											
		Computer	Optional											
		English language	Optional											
		Principle of pathological analysis	Optional											
		Human anatomy	Basic											
		Medical physics	Optional											
		Statistics	Basic											
		Human Rights &Freedom & democracy	Optional											
		Arabic Language	Optional											
2023-2024/Second		human histology	Basic	-	-	-	-	-	-	-	-	-	-	-
		pathogenic bactorology	Basic	-	-	-	-	-	-	-	-	-	-	-
		medical virology	Basic	-	-	-	-	-	-	-	-	-	-	-
		principles of physiology	Basic	-	-	-	-	-	-	-	-	-	-	-
		parasitic protozoa	Basic	-	-	-	-	-	-	-	-	-	-	-
		tissue culture	Basic	-	-	-	-	-	-	-	-	-	-	-
		medical mycology	Basic	-	-	-	-	-	-	-	-	-	-	-
		principles of immunology	Basic	-	-	-	-	-	-	-	-	-	-	-
		medical physiology	Basic	-	-	-	-	-	-	-	-	-	-	-

		parasitic helminths	Basic	-	-	-	-	-	-	-	-	-	-	-
		Biochemistry	Basic	-	-	-	-	-	-	-	-	-	-	-
2024-2025/ third		infectious diseases	Basic											
		clinical immunology	basic	-	-	-	-	-	-	-	-	-	-	-
		medical molecular biology	Basic	-	-	-	-	-	-	-	-	-	-	-
		pathological analyses	Basic	-	-	-	-	-	-	-	-	-	-	-
		microbial diagnosis	Basic	-	-	-	-	-	-	-	-	-	-	-
		research methodology	Basic	-	-	-	-	-	-	-	-	-	-	-
		medical genetics	Basic	-	-	-	-	-	-	-	-	-	-	-
		enzymology	Basic	-	-	-	-	-	-	-	-	-	-	-
		Antibiotics	Basic	-	-	-	-	-	-	-	-	-	-	-
		hematology	Basic	-	-	-	-	-	-	-	-	-	-	-
2025-2026/fourth		blood diseases	Basic	-	-	-	-	-	-	-	-	-	-	-
		clinical chemistry	Optional	-	-	-	-	-	-	-	-	-	-	-
		medical biotechnology	Basic	-	-	-	-	-	-	-	-	-	-	-
		genetic engineering	Basic	-	-	-	-	-	-	-	-	-	-	-
		Research Project	Basic	-	-	-	-	-	-	-	-	-	-	-
		endocrinology	Basic	-	-	-	-	-	-	-	-	-	-	-
		pathology	Optional	-	-	-	-	-	-	-	-	-	-	-
		embryology	Basic											
		bioinformatics	Basic											
		toxicology	Basic	-	-	-	-	-	-	-	-	-	-	-
		epidemiology	Basic	-	-	-	-	-	-	-	-	-	-	-
		Research Project	Basic	-	-	-	-	-	-	-	-	-	-	-

● Please tick the boxes corresponding to the individual program learning outcomes under evaluation.