

University of Al-Qasim Green

جامعة القاسم الخضراء



First Cycle – Bachelor’s degree (B.Sc.) – pathological analyses

بكالوريوس علوم- تحليلات مرضية



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1. **Mission & Vision Statement**

Vision Statement

The Department of Pathological Analysis seeks to carry the banner of education and scientific research on modern and advanced foundations that keep pace with rapid technological progress, discoveries and inventions in various disciplines that form the backbone of the department. In addition to following the methodology of scientific and educational research for the teaching staff in order to raise generations with a high level of awareness. Efficiency to assume responsibility and actively contribute for building our dear country and raising its status among nations. The department's vision also pulsates in spreading a spirit of optimism and hope for a prosperous future for students, faculty, and department workers, scientifically, technically, and administratively, and even at the human level, through strengthening the bonds of love and peace among its affiliates.

So the department's strategic vision is to have an integrated pillar in infrastructure, human energies, and modern economic and technical resources. It is a source of attracting science students and radiating scientific and human output. Especially since the pathological analysis department must integrate its specialties, which are microbiology, biochemistry, pathology, hematology and genetics.

Mission Statement

The department adopts honesty, sincerity and sobriety as a mission and a work approach in preparing specialized human energies to enter its confidence in the labor market and contribute in a scientific and practical way to building society and pushing it forward by engaging in various state institutions, especially medical, because of their impact on human health and safety. In order for the department's message to be integrated, it must include emphasizing the conduct of solid scientific studies and research, especially the applied ones directed at serving the community and the country. The department's message encapsulates the human dimension by instilling the principles of medical ethics in the department's graduates when they practice the profession. Thus, the department's message is a scientific, national, economic and humanity.

2. **Program Specification**

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

As long as the ambition exists and the aspiration for the future exists, the ceiling of goals will be renewed with the developments of matters, activity and hard work, whether among the department's employees or through support and overcoming difficulties from the departments in the college and university.

3. Program Goals

- 1- Preparing human energies that help in the development and progress of society.
- 2- Granting bachelor's degrees in the specialization of pathological analysis, the main nerve in the medical group.
- 3- Creating postgraduate studies in various medical specialties.
- 4- Develop the research skills of the students of the department by following the methodology of scientific research, keeping pace with technical development and dropping all that is new and innovative on the ground.
- 5- Encouraging and supporting the teaching staff on creativity and innovation through the publication of applied and academic research in international research journals with a high impact factor.
- 6- The pathological analysis department should have a fixed goal for a scientific and practical radiation source for state and community institutions through holding conferences, training courses, introductory seminars, and other activities that raise the level of the department and the college and are reflected in the positive evaluation of the university.
- 7- Building a scientific and administrative system in the department on firm foundations that grow and develop with expansion and the needs of the university and society.
- 8- Introducing modern technology in education and department management.
- 9- So that the scientific and cultural exchange with international universities is one of the department's strategic goals through research fellowships, scholarships and training courses.
- 10- Establishing an integrated data unit on the basis of comprehensive quality standards in education, under the supervision of qualified specialists from among the department's employees.

4. Student Learning Outcomes

learning outcomes of the pathological analyses ' Program are designed to ensure that students graduate and are competent in all areas of the pathological analyses ' and in all standards set forth by the university of kufa . Upon completion of the program, students will be able to perform the appropriate techniques for the preparation, gross description, and dissection for pathological analyses

Outcome 1

Identification of Complex Relationships

Performance of and verification of proper specimen collection and accessioning
Direction of specimen collection and triaging
Assurance of proper specimen handling prior to processing
Review of pertinent clinical history including pathology laboratories

Outcome 2

Oral and Written Communication

Graduates will be able to formally communicate the results of pathological analysis 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

Hassan Gatea Jarallah Al-Awady | Ph.D. in Pathological Analyses | Professor
Email: Dr.hassan@uoqasim.edu.iq
Mobile no.:07801427701

Venus Hassan Abdul Amir | Ph.D. in Pathological Analyses | Assistant Professor
Email: Dr.venus@science.uoqasim.edu.iq
Mobile no.:07801364070

Zaine Al-bideen Yousif Mijbil | Ph.D. in Pathological Analyses | Assistant Professor
Email: zymijbil@vet.uoqasim.edu.iq
Mobile no.: 07708686940

Fouad Zuhair Razzouqi | Master in Pathological Analyses | Assist. Lecturer

Email: fouadzuhair14@science.uoqasim.edu.iq

Mobile no.: 07805292859

Humam Ali Hadi | Ph.D. in Pathological Analyses | Assistant Prof.

Email: humam.ali@science.uoqasim.edu.iq

Mobile no.: 07706020743

Mohammed Hussein Obaid | Ph.D. in Pathological Analyses | Lecturer

Email: mohammed_ajam@science.uoqasim.edu.iq

Mobile no.: 07818125757

Samer Adnan | Ph.D. in Pathological Analyses | Lecturer

Email: samer.adnan@science.uoqasim.edu.iq

Mobile no.: 07802367632

Haider Abd Zaid | Ph.D. in Pathological Analyses | Lecturer

Email: dr.haider@science.uoqasim.edu.iq

Mobile no.:07804287305

Shaima Hussein Ali | Ph.D. in Pathological Analyses | Assist Professor

Email: s.ali@vet.uoqasim.edu.iq

Mobile no.: 07803687360

Ali Hadi Hamidi | Ph.D. in Pathological Analyses | Professor

Email: ali.alshokrawy@science.uoqasim.edu.iq

Mobile no.:07801245822

Hamza Hatef Al-Jubouri | Ph.D. in Pathological Analyses | Assistant Professor

Email: hamaza.hated@science.uoqasim.edu.iq

Mobile no.:07801262785

Makki Shahd Daham | Master in Pathological Analyses | Lecturer

Email: makki@uoqasim.edu.iq

Mobile no.:07801559440

Bashar Jawad Noumi | Master in Pathological Analyses | Lecturer

Email: bashar.nomy@uoqasim.edu.iq

Mobile no.:07818124691

Mohammed Hussein Hamzah | Master in Pathological Analyses | Assist. Lecturer

Email: Mohammed H. HamzaH@science.uoqasim.edu.iq

Mobile no.: 07817481670

Zahraa Abdul Kareem Makki | Master in Pathological Analyses | Assist. Lecturer

Email:

Mobile no.:07808256240

Teeb Ahmed Ismael | Ph.D. in Pathological Analyses | Lecturer

Email:

Mobile no.:07727203767

Worood Ali Mukheef | Master in Pathological Analyses | Assist. Lecturer

Email:

Mobile no.:07812745526

Karrar Salih Mehdi | Ph.D. in Pathological Analyses | Lecturer

Email: Karrar.salih@science.uoqasim.edu.iq

Mobile no.:07807208910

Jumana Waleed Ammar | Master in Pathological Analyses | Assist. Lecturer

Email:

Mobile no.:07803328598

Haider Mohammed Jebur | Master in Pathological Analyses | Assist. Lecturer

Email:

Mobile no.:07822199575

Samar Raffia Herby | Master in Pathological Analyses | Assist. Lecturer

Email:

Mobile no.: 07718363035

Hawraa Saad Hammoud | Ph.D. in Pathological Analyses | Lecturer

Email:

Mobile no.:07823043544

Zahraa Essam Jamil | Ph.D. in Pathological Analyses | Lecturer

Email:

Mobile no.:07806096422

Diaa Hussein Allawi | Master in Pathological Analyses | Assist. Lecturer

Email:

Mobile no.:07811680775

Marwan Jassim Mohammed | Master in Pathological Analyses | Assist. Lecturer

Email:

Mobile no.:07806093740

Mohammed Abdul rasool | Master in Pathological Analyses | Assist. Lecturer

Email:

Mobile no.:07809613783

Zahra Muhammad Yahya | Master in Pathological Analyses | Assist. Lecturer

Email:

Mobile no.:

Hawraa Jaafar | B. Sc. in Pathological Analyses |

Email:

Mobile no.:

1. Credits, Grading and GPA

Credits

Kufa 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:

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

2. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Path-111	principles of microbiology	79	96	7.00	C	
Path-112	Human cytology	79	96	7.00	C	
Path-113	Analytical chemistry	64	61	5.00	B	
Path-114	Occupational laboratory safety I	48	27	3.00	B	
Sci-101	Computer	64	36	4.00	B	
Uni-101	English Language	63	37	4.00	S	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Path-121	Principle of pathological analysis II	79	96	7.00	C	
Path-122	Human anatomy	79	96	7.00	C	
Path-123	Medical physics	64	61	5.00	B	
Path-124	Statistics	63	37	4.00	B	
Uni-103	Human Rights & Freedom & democracy	48	27	3.00	S	
Uni-102	Arabic Language	63	37	4.00	S	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Path-211	human histology	79	71	6.00	C	
Path-212	pathogenic bacteriology	79	71	6.00	C	Path-111
Path-213	medical virology	79	71	6.00	C	Path-111
Path-214	principles of physiology	79	71	6.00	C	
Path-215	parasitic protozoa	79	71	6.00	C	Path-111

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Path-221	tissue culture & Histological Preparations	64	61	5.00	C	
Path-222	medical mycology	64	61	5.00	C	Path-111
Path-223	principles of immunology	64	61	5.00	C	
Path-224	medical physiology	64	61	5.00	C	Path-214
Path-225	parasitic helminths	79	46	5.00	C	
Path-226	biochemistry	64	61	5.00	B	

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Path-311	infectious diseases	79	71	6.00	C	
Path-312	clinical immunology	79	71	6.00	C	Path-223
Path-313	medical molecular biology	79	71	6.00	C	
Path-314	pathological analyses	79	71	6.00	C	Path-121
Path-315	microbial diagnosis	79	71	6.00	C	

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Path-321	research methodology	48	52	4.00	C	
Path-322	medical genetics	79	71	6.00	C	Path-313
Path-323	enzymology	79	71	6.00	C	
Path-324	Antibiotics	94	81	7.00	C	
Path-325	hematology	94	81	7.00	C	

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Path-411	blood diseases	79	71	6.00	C	Path-325
Path-412	clinical chemistry	79	71	6.00	C	
Path-413	medical biotechnology	79	71	6.00	C	
Path-414	toxicology	79	71	6.00	C	Path-313
Path-415	option 1	48	27	3.00	E	
Path-416	Research Project	30	45	3.00	C	

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Sc-path421	endocrinology	79	71	6.00	C	
Sc-path422	pathology	79	71	6.00	C	Path-211
Sc-path423	genetic engineering	79	71	6.00	C	
Sc-path424	epidemiology	79	71	6.00	C	
Sc-path425	option 2	48	27	3.00	E	
Sc-path426	Research Project	32	43	3.00	C	

3. Contact

Program Manager:

Venus Hassan Abdul Amir | Ph.D. in Medical Microbiology | Assistant Prof.

Email: Dr.venus@science.uoqasim.edu.iq

Mobile no.:07801364070

Program Coordinator:

Qasim Najim obied | Ph.D. in Microbiology | Prof.

Email: thewaini@biotech.uoqasim.edu.iq

Mobile no.: 07801002678

