

Academic Program Description

University Name: University of Warith Al-Anbiyaa (PBUH)

College: College of Pharmacy

Scientific Department: Pharmacy

Academic Program Name: Bachelor of Pharmacy

Final Degree Name: Bachelor of Pharmaceutical Sciences

Study System: Semesters (Courses)

Description Preparation Date: January 31, 2026

File Completion Date: January 31, 2026

Name of Quality Assurance Unit Head: Asst. Lect. Olfet Jabbar Makki Alhassani

Signature: (Signed)



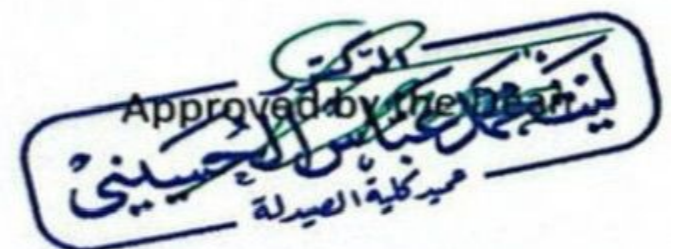
Date: January 31, 2026

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File Audited By: Quality Assurance and University Performance Unit Name of Quality Assurance and University Performance Unit Director: Asst.Lect. Olfet Jabbar Makki Alhassani

Date: January 31, 2026

Signature:



1-Program Vision

To achieve leadership and excellence in pharmaceutical education and scientific research, to prepare pharmacists with high professional and ethical competence who contribute to the development of healthcare and community service in accordance with international standards.

Core Pillars of the Vision :

- **Academic Excellence:** Keeping pace with the latest global curricula.
- **Professional Quality:** Graduating pharmacists capable of clinical and industrial practice.
- **Human Values:** Commitment to professional ethics and the university's value-based identity.

2- Program Mission

To provide distinguished pharmaceutical education and scientific research to prepare competent cadres who adhere to professional ethics and meet the needs of the labor market and the community.

Foundations of the Mission:

- **Quality of Education:** Linking knowledge with practical application.
- **Competence:** Graduating pharmacists ready for the health field.
- **Service:** Effective contribution to improving healthcare.

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3- Program Objectives

Academic Program Objectives of the College of Pharmacy Strategic Objectives:

- **Professional Qualification:** Preparing scientifically capable pharmacists to work in pharmacies, hospitals, and pharmaceutical factories.
- **Skills Development:** Focusing on patient communication skills and providing clinical pharmacy care.
- **Supporting Scientific Research:** Stimulating innovation in drug discovery and treatment development.
- **Community Service:** Spreading health awareness regarding the safe and rational use of medication.
- **Academic Accreditation:** Raising the college to international quality standards in pharmaceutical education.

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4- Program Accreditation

The college is currently in the process of obtaining accreditation, as it strives to complete a comprehensive quality control process aimed at achieving official local and international recognition. This process is summarized in three dimensions:

- **The Goal:** To ensure that the graduate possesses scientific and professional competence that rivals international standards.
- **The Standards:** These include modernizing curricula, laboratory efficiency, the sobriety (rigor) of scientific research, and the effectiveness of field training.
- **The Outcome:** A globally recognized university degree that facilitates the graduate's entry into the labor market and the pursuit of postgraduate studies abroad. **The Eight Standards for Accreditation:**
 - Mission and Goals.
 - Governance and Administration.
 - The Educational Program.
 - Students.
 - Human Resources (Faculty Members).
 - Educational Resources (Halls and Laboratories).
 - Continuous Improvement.
 - Scientific Research.



5- Other External Influences

The College of Pharmacy seeks, by investing its available capabilities, to consolidate its position as a leading medical and academic edifice through:

- **Educational Excellence** : Achieving quality in university education and instilling solid academic values in students.
- **Innovation and Research:** Adopting a creative approach in scientific research to keep pace with rapid global developments in pharmaceutical sciences.
- **Quality Standards** : Preparing graduates according to the highest comprehensive quality management standards to ensure their professional competence.
- **Institutional Integration** : Meeting the actual needs of state institutions and the health sector, particularly the Health and Education Authority and the Karbala Health Department, and contributing to providing the community with specialized, high-quality cadres.



6- Program Structure

Program Structure	Number of Courses	Study Units	Percentage	Notes
Institution Requirements	6	9	10%	Single-dept. college
College Requirements	66	185	90%	
Department Requirements	66	185	90%	

7- Program Description (Level 1)

Level / Semester	Course Name	Course Code	Credit Units	Theory	Practical
<i>First / 1st Sem.</i> <i>First / 1st Sem.</i>	Human Anatomy and Histology	HAH111	4	3	2
	Analytical Chemistry	AC112	4	3	2
<i>First / 1st Sem.</i>	Medical Physics	MP113	2	2	1
<i>First / 1st Sem.</i>	Medical Terminology	MT114	1	1	-
<i>First / 1st Sem.</i>	Biostatistics	BS115	2	2	-
<i>First / 1st Sem.</i>	Democracy and Human Rights	HRD116	2	2	-
<i>First / 2nd Sem.</i>	Physiology	PHY121	4	3	2

First / 2nd Sem.	Pharmaceutical Calculations	PHC122	3	3	2
First / 2nd Sem.	Organic Chemistry 1	OC124	4	3	2
First / 2nd Sem.	Arabic Language	ARB125	2	2	-
First / 2nd Sem.	Computer Sciences	CS123	2	1	2

Level / Hours	Course Name	Course Code	Units	Theory Hours	Practical
Second Year / 1st Semester	Organic Chemistry 2	OC221	4	3	2
	Microbiology 1	MMB212	4	3	2
	Physical Pharmacy 1	PPH213	4	3	2
	Physiology 2	PH214	3	2	2
	Computer Science	CS215	2	1	2
	Crimes of the Ba'ath Regime in Iraq	BRC216	2	2	-----
	Arabic Language	ARB217	2	2	-----

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Second Year / 2nd Semester	Microbiology 2	MMB221	3	2	2
	Physical Pharmacy 2	PPH222	4	3	2
	Nutrition	NUT223	2	2	----
	Physiology 3	PHY224	2	2	----
	Pharmacognosy and Medicinal Plants	PHG225	3	2	2
	Biochemistry 1	BCH226	4	3	2
	Personal and Professional Development	PPD227	2	2	----

Level / Semester	Course Name	Course Code	Credit Units	Theory Hours	Practical Hours
Third Year / 1st Semester	Inorganic Pharmaceutical Chemistry	IPC311	3	2	2
	Plant Chemistry (Phytochemistry)	PHC312	4	3	2
	Pharmaceutical Technology	PHT313	4	3	2
	Biochemistry 2	BCH314	4	3	2
	Pathophysiology	PPHY315	3	3	----
	Pharmacology 1	PHM316	2	2	---
Third Year / 2nd Semester	Pharmaceutical Organic Chemistry	POCH321	3	3	---
	Pharmacology 2	PHM322	2	2	---

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	Pharmaceutical and Cosmetic Preparations	PHCP323	3	3	---
	Community Pharmacy	CMP326	3	2	1
	Herbal Therapy (Phytotherapy)	PHT327	2	2	----
	Communication Skills	CCS324	1	1	----
	Immunology	IMU325	2	2	----

Level / Semester	Course Name	Course Code	Credit Units	Theory Hours	Practical Hours
Fourth Year / 1st Semester	Pharmacology 3	PHM411	3	2	2
	Pharmaceutical Organic Chemistry 2	OPCH412	4	3	2
	Industrial Pharmacy 1	IPH413	4	3	2
	Pharmacy Practice	PHP414	2	2	--
	Applied Therapeutics 1	APTH415	3	2	2
	General Toxicology	GTX416	2	2	--
Fourth Year / 2nd Semester	Pharmacology 4	PHM421	3	3	--
	Pharmaceutical Organic Chemistry 3	OPCH422	4	3	2

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	Industrial Pharmacy 2	IPH423	4	3	2
	Clinical Toxicology	CLTX424	4	3	2
	Applied Therapeutics 2	APTH425	3	3	--
	Genetics	GEN426	1	1	--

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Level / Semester	Course Name	Course Code	Credit Units	Theory Hours	Practical Hours
Fifth Year / 1st Semester	Biopharmaceutics	BPM511	4	3	2
	Applied Therapeutics 3	APTH512	3	3	2
	Clinical Chemistry	CCH513	4	3	2
	Clinical Laboratory Training	CLT514	2	--	4
	Molecular Modeling	MM515	3	2	2
	Hospital Training 1	HT516	2	--	4
	Pharmacoeconomics and Marketing	PHE517	1	1	--
Fifth Year / 2nd Semester	Pharmaceutical Analysis	PHA521	2	2	--
	Therapeutic Drug Monitoring (TDM)	TDM522	2	2	--
	Hospital Training 2	HT523	2	--	4
	Drug Delivery Systems	DDS524	2	2	--
	Pharmaceutical Biotechnology	PHBI525	2	2	--
	Pharmacy Laws and Ethics	PHLE526	1	1	--
	Graduation Project	GP527	1	--	2

8- Expected Program Learning Outcomes (PLOs)

The expected learning outcomes for a graduate of the College of Pharmacy at the University of Warith Al-Anbiyaa are classified into three main areas that ensure the pharmacist's readiness:

1- Knowledge (Cognitive Outcomes):

- Deep understanding of basic, pharmaceutical, and clinical sciences.
- Knowledge of drug mechanisms of action, interactions, and manufacturing methods.
- Familiarity with the legislation and laws regulating the pharmacy profession in Iraq.

2- Skills (Practical Skills):

- **Clinical Skill:** The ability to dispense medications accurately and provide patient counseling.
- **Technical Skill:** Mastery of laboratory work and the formulation of various dosage forms.
- **Problem Solving:** Evaluating medical prescriptions and diagnosing potential medication errors.

3- Values & Competencies (General Values and Skills):

- **Ethics:** Commitment to professional integrity and protecting patient privacy.
- **Communication:** The ability to work within a medical team (pharmacist, physician, nurse).
- **Continuous Learning:** The ability to keep pace with research and modern scientific discoveries after graduation.

9- Teaching and Learning Strategies

1- Cognitive Learning Strategies:

- Presentation and lecturing.
- Research and inquiry.
- Flipped classrooms.
- Self-learning.

2- Interactive and Group Skills:

- Interactive discussions and seminar circles.
- Brainstorming.
- Working within small groups.

3- Practical and Field Application:

- Laboratory and clinical training.
- Field visits to pharmaceutical institutions.
- Seminars, workshops, and exhibitions.
- Voluntary work.

10- Assessment Methods

1. Midterm Examination.
2. Final Examination.
3. Reports.
4. Daily Quizzes.
5. Practical Examination (OSPE) and Clinical Examination (OSCE).
6. Presentations / Seminars.



11- Faculty Members

Academic Rank	Specialization	Degree	Number of Faculty Members
	General	Special	
Professor	-	-	-
Assistant Professor	2	-	PhD
Lecturer	1	2	PhD
Assistant Lecturer	1	3	Master's

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Professional Development

Orientation for New Faculty Members:

- Teaching Methods Course.
- Teaching Proficiency Course.
- Arabic Language Integrity Course.
- Computer Literacy Course.
- Participation in conferences.
- Scientific discussions and external examinations.

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Professional Development for Faculty Members:

- **Continuous Academic Development Programs:** These include workshops and courses in curriculum planning, preparation of study plans, and development of assessment methods.
- **Training on Scientific Research and Academic Publishing:** To encourage members to produce high-quality research that contributes to serving the scientific community.
- **Use of Technology in Education:** E-learning, Virtual Reality (VR), and digital simulation to enhance teaching quality.
- **Leadership and Administrative Skills Development:** To enable faculty members to hold academic and administrative positions efficiently.
- **Development in Academic Advising:** Training faculty on supporting, guiding, and mentoring students both academically and professionally.

12- Admission Criteria

Includes commitment to the cumulative Grade Point Average (GPA) and physical health, as determined by the Ministry of Higher Education and Scientific Research.

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13- Key Information Sources about the Program

- The official website of the Ministry of Higher Education and Scientific Research.
- The Scientific Supervision and Evaluation Apparatus (through the workshops it conducts).

14- Program Development Plan

The program development plan relies on continuous updating to keep pace with global developments: **1- Curricula Update:**

- Incorporating the latest scientific discoveries, gene therapies, and biotechnology into the curriculum.
- Increasing focus on "Digital Pharmacy" and Artificial Intelligence (AI) in pharmacy.

2- Infrastructure Development:

- Equipping laboratories with advanced analytical devices (such as **HPLC** and **FTIR**) to train students on modern laboratory testing.
- Expanding smart classrooms and virtual laboratories.

3- Professional Development (Faculty Development):

- Sending faculty members on international fellowships and training to transfer global expertise.
- Conducting periodic workshops on modern teaching methods (e.g., ProblemBased Learning - **PBL**).

4- Enhancing Clinical Training:

- Signing Memorandums of Understanding (**MOU**) with major hospitals and pharmaceutical factories to provide a real training environment for students.
- Increasing clinical training hours in hospital wards.

5- Quality and Accreditation:

- Intensive work to obtain national and international program accreditation to raise the college's global ranking.

Development Schedule and Path:

- **Curriculum Update (Annual):** Periodic review of scientific material by scientific committees.
- **Comprehensive Evaluation (Every 4 years):** Structural changes in course distribution based on national council outcomes and labor market changes.
- **Feedback (End of each semester):** Surveying students, graduates, and employers (hospitals and factories) to address program weaknesses immediately.

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Program Skills Mapping

Affective Objectives		Skill-based Objectives										Cognitive Objectives							Course Name
2	1	9	8	7	6	5	4	3	2	1	7	6	5	4	3	2	1		
C	C	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A		
	✓						✓	✓	✓	✓					✓	✓	✓	(Histology & Human Anatomy)	
✓	✓						✓	✓	✓	✓						✓	✓	(Analytical Chemistry)	
	✓								✓	✓					✓	✓	✓	(Medical Terminology)	
	✓								✓	✓						✓	✓	(Biostatistics)	
	✓									✓							✓	(Democracy & Human Rights)	
✓	✓							✓	✓	✓					✓	✓	✓	(Physiology 1)	
✓	✓							✓	✓	✓					✓	✓	✓	(Pharmaceutical Calculations)	
✓	✓							✓	✓	✓					✓	✓	✓	(Organic Chemistry)	
	✓									✓							✓	(Arabic Language)	
	✓									✓							✓	(Computer Science)	