

## **Al-Balqa Applied University**

جامعة البلقاء التطبيقية

تأسست سنة 1997

## Guidelines for the Bachelor's Degree in Water Resources and Environmental Management

First Academic Year						
First Semester			Second Semester			
Course No.	Course Title	Credit hour	Course No.	Course Title	Credit hour	
AAL101	Applied Arabic Language	3	IEC101	Innovation, Entrepreneurship, and Creativity	2	
AEL101	Applied English Language (1)	3	AEL102	Applied English Language (2)	3	
CS101	Computer Skills and E-Learning	1	30202101	Calculus 1	3	
30203101	General Biology 1	3	-	University Elective Course (UEC)	3	
30203111	General Biology Lab	1	30206103	General Chemistry 2	3	
30206101	General Chemistry 1	3	30201105	General Physics for Agricultural Students	3	
30206102	General Chemistry Lab 1	1	-	-	-	
Total		15	Total		17	

Second Academic Year						
First Semester			Second Semester			
Course No.	Course Title	Credit hour	Course No.	Course Title	Credit hour	
NE101	National Education and University Behavior	3	WRE222	Meteorology and Air Pollution	3	
WRE221	Applied Environmental Geology	3	WRE212	Principles of Irrigation and Drainage	3	
WRE211	Hydraulics	3	WRE213	Drinking water quality	3	
30206104	General Chemistry Lab 2	1	WRE223	Environmental Soil Physics	3	
30403211	Principles of Plant Production	3	-	Specialization Elective Course (SEC)	3	

-	University Elective Course (UEC)	3	Project Management (College of Business)	3
Total		16	Total	18

Third Academic Year						
First Semester			Second Semester			
Course No.	Course Title	Credit hour	Course No.	Course Title	Credit hour	
WRE314	Surface Water Hydrology	3	WRE315	Groundwater Hydrology	3	
WRE316	Design of smart irrigation system	3	WRE327	Soil Fertility and Fertilizers	3	
WRE325	Environmental Soil Chemistry	3	WRE324	Climate change and sustainable development	3	
WRE326	Wastewater Treatment and Reuse	3	WRE342	Environmental remote sensing and GIS Lab	1	
WRE341	Environmental remote sensing and GIS	3	WRE331	Environmental Impact Assessment	3	
-	Specialization Elective Course (SEC)	3	-	Specialization Elective Course (SEC)	3	
			CIE0215	Surveying Lab	1	
	18		Total	17		

Fourth Academic Year					
First Semester			Second Semester		
Course No.	Course Title	Credit hour	Course No.	Course Title	Credit hour
WRE433	Water harvesting systems	3	WRE417	Integrated Water Resources Management	3
WRE443	Environmental Monitoring and Early Warning Systems	3	WRE432	Integrated Solid Waste Management	3
30403473	Statistics and Design of Agricultural Experiments	3	WRE434	Water and Environmental Economics	3
WRE401	Field Training	6	WRE402	Seminar	1
-	UCC	3	WRE403	Graduation Project	3
Total		18	Total		13

**Note:** Seminar, Field Training and Graduation Project can be proposed for the first &/or second semesters of the fourth academic year. Seminar &/or Field Training can also be proposed for the summer semester.