LEBANESE INTERNATIONAL UNIVERSITY

Major Title: Bachelor of Physics
Major Code: BPHYS
Level: underGraduate
Number Of Credits: 99
Version: 4 | 26-08-2026

Bachelor of Physics (BPHYS)

First Year

Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
MATH210	Calculus II	3	MATH161-MATH160	
MATH225	Linear Algebra with Applications	3	MATH160-ENGL051-MATH161	
ENGL201	Composition and Research Skills	3	ENGL151	
	General Education Electives	3		
ARAB200	Arabic Language and Literature	3		
PHYS210	Mechanics	3	PHYS161-MATH161-PHYS160-MATH160-ENGL051	
Total		18		

Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
ENGL251	Communication Skills	3	ENGL201	
PHYS250	Thermodynamic and Waves	3	PHYS161-PHYS160-MATH161-MATH160-ENGL051	
PHYS280	Electricity and Magnetism	3	MATH210	
MATH270	Ordinary Differential Equations	3	MATH225-MATH210	
PHYS280L	Electricity and Magnetism Lab	1		PHYS280
PHYS250L	Thermodynamic and Waves Lab	1		PHYS250
MATH220	Calculus III	3	MATH210	
Total		17		

Second Year

Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
PHYS330	Electromagnetic Fields and Waves I	3	PHYS280-PHYS250	PHYS300
CHEM200	General Chemistry	3	ENGL101-CHEM160	
	General Education Electives	3		
PHYS300	Mathematical Physics	3	MATH225-MATH220	
PHYS340	Modern Physics	3	PHYS250	
PHYS340L	Atomic Physics Lab	1	PHYS250	PHYS340
Total		16		

Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
PHYS350L	Physical Optics Lab	1	PHYS250	PHYS350
CSCI250L	Introduction to Programming Lab	1		ENGL101-CSCI250
CSCI250	Introduction to Programming	3		ENGL101-CSCI250L
	Major Elective	3		
PHYS380	Electromagnetic Fields and Waves II	3	PHYS300-PHYS330	
PHYS350	Physical Optics	3	PHYS250	
PHYS360	Analytical Mechanics	3	PHYS210-MATH270	
Total		17		

Third Year				
Fall Semester				
Code	**Title**	**Credits**	**Prerequisites**	**Corequisites**
PHYS420	Quantum Mechanics	3	PHYS360-PHYS340	
PHYS430	Thermal Physics I	3	PHYS340-PHYS330	
	Major Elective	3		
MATH375	Numerical Methods for Scientists & Engineers	3	MATH270-MATH225	
MATH305	Programming Languages for Scientist	3	MATH220	
Total		15		
Spring Semester				
Code	**Title**	**Credits**	**Prerequisites**	**Corequisites**
PHYS470	Advanced Quantum Mechanics	3	PHYS420	
CULT200	Introduction to Arab - Islamic Civilization	3		
PHYS490	Physics Seminar	1	PHYS330-ENGL201-PHYS340	
PHYS450	Solid State Physics	3	PHYS430-PHYS420	
	General Education Electives	3		
PHYS480	Thermal Physics II	3	PHYS430	
Total		16		