



**L E B A N E S E
I N T E R N A T I O N A L
U N I V E R S I T Y**

Major Title: Bachelor of Physics
Major Code: BPHYS
Level: underGraduate
Number Of Credits: 99
Version: 3
Version
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Bachelor of Physics (BPHYS)

Major Electives

Code	Title	Credits	Prerequisites	Corequisites
	Major Elective	3		
	Major Elective	3		
Total		6		

Core Requirements

Code	Title	Credits	Prerequisites	Corequisites
CHEM200	General Chemistry	3	ENGL101-CHEM160	
CSCI250	Introduction to Programming	3	CSCI200	ENGL101-CSCI250L
CSCI250L	Introduction to Programming Lab	1	CSCI200	ENGL101-CSCI250
MATH210	Calculus II	3	MATH161-MATH160	
MATH220	Calculus III	3	MATH210	
MATH225	Linear Algebra with Applications	3	MATH160-ENGL051-MATH161	
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
MATH305	Programing Languages for Scientist	3	MATH220	
MATH375	Numerical Methods for Scientists & Engineers	3	MATH270-MATH225	
PHYS210	Mechanics	3	PHYS161-MATH161-PHYS160-MATH160-ENGL051	
PHYS250	Thermodynamic and Waves	3	PHYS210	
PHYS250L	Thermodynamic and Waves Lab	1		PHYS250
PHYS280	Electricity and Magnetism	3	PHYS250	
PHYS280L	Electricity and Magnetism Lab	1		PHYS280
Total		36		

Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
PHYS300	Mathematical Physics	3	MATH270-MATH225-MATH220	
PHYS330	Electromagnetic Fields and Waves I	3	PHYS280-PHYS250	PHYS300
PHYS340	Modern Physics	3	PHYS250	
PHYS340L	Atomic Physics Lab	1	PHYS250	PHYS340
PHYS350	Physical Optics	3	PHYS250	PHYS350L
PHYS350L	Physical Optics Lab	1	PHYS250	PHYS350
PHYS360	Analytical Mechanics	3	PHYS210-MATH270-MATH220	
PHYS380	Electromagnetic Fields and Waves II	3	PHYS300-PHYS330	
PHYS420	Quantum Mechanics	3	PHYS360-PHYS340	
PHYS430	Thermal Physics I	3	PHYS340-PHYS330	
PHYS450	Solid State Physics	3	PHYS430-PHYS420	
PHYS470	Advanced Quantum Mechanics	3	PHYS420	
PHYS480	Thermal Physics II	3	PHYS430	
PHYS490	Physics Seminar	1	PHYS380-PHYS340-ENGL251	

		Total	36		
General Education Requirements					
Code	Title	Credits	Prerequisites	Corequisites	
ARAB200	Arabic Language and Literature	3			
CSCI200	Introduction to Computers	3	ENGL051		
CULT200	Introduction to Arab - Islamic Civilization	3			
ENGL201	Composition and Research Skills	3	ENGL151		
ENGL251	Communication Skills	3	ENGL201		
		Total	15		
General Education Electives					
Code	Title	Credits	Prerequisites	Corequisites	
Set C	General Education Electives	3			
Set B	General Education Electives	3			
		Total	6		
Major Elective Courses					
Code	Title	Credits	Prerequisites	Corequisites	
EDUC212 (Set A)	Educational Technology for Teachers	3	CSCI200		
PHYS370 (Set A)	Nuclear Physics	3	PHYS340		
PHYS375 (Set A)	Electronics	3	PHYS280		
PHYS465 (Set A)	Selected Topics in Undergraduate Physics	3	PHYS380-PHYS340		
General Education Electives					
Code	Title	Credits	Prerequisites	Corequisites	
ARAB220 (Set A)	Creative Writing in Arabic	3			
ARTS204 (Set A)	Introduction to Theater	3			
ARTS215 (Set A)	History of Arts	3			
BACC200 (Set A)	Financial Accounting	3			
BECO210 (Set A)	Introduction to Microeconomics	3			
BECO260 (Set A)	Introduction to Macroeconomics	3			
BMED210 (Set A)	Introduction to Community Health	3			
BMTH210 (Set A)	Business and Managerial Math	3			
BSTA205 (Set A)	Introduction to Business Statistics	3			
COMM200 (Set A)	Introduction to Communication Studies	3			
COMM205 (Set A)	Introduction to Western Civilization	3			
COMM220 (Set A)	Rhetoric & Persuasion	3			
CSCI205 (Set A)	Computer Science Overview	3			
ENVR200 (Set A)	Environmental Science	3			
GEE200 (Set A)	General Topics in Cooperation and Collaboration	3			
GEE201 (Set A)	General Topics in Communication	3			
GEE203 (Set A)	General Topics in Culture and Diversity	3			
GEE204 (Set A)	General Topics in Critical Thinking and Problem Solving	3			
GEE205 (Set A)	General Topics in Quantitative and Qualitative Literacy	3			
HUMN200 (Set A)	Community Service	3			

HUMN215 (Set A)	Introduction to Civic Society	3		
LANG200 (Set A)	Beginners Russian	3		
LANG221 (Set A)	Introduction To Italian	3		
LANG222 (Set A)	Introduction To French	3		
LANG225 (Set A)	Introduction To German	3		
LANG226 (Set A)	Introduction to Portuguese	3		
NUTR200 (Set A)	Nutrition and Health	3		
PHED200 (Set A)	Sports and Health	3		
PHIL200 (Set A)	Introduction to Philosophy	3		
PHIL205 (Set A)	Introduction to Ethics	3		
PHIL210 (Set A)	World Religions	3		
POLS205 (Set A)	World Current Affairs	3		
POLS230 (Set A)	Lebanese Labor Law	3		
POLS240 (Set A)	The Arab Israeli Conflict	3		
SPAN200 (Set A)	Introduction to Spanish	3		
SSCI200 (Set A)	Introduction to Sociology	3		
SSCI205 (Set A)	Introduction to Psychology	3		
SSCI215 (Set A)	Introduction to Music	3		