LEBANESE INTERNATIONAL UNIVERSITY

Major Title: Bachelor of Physics
Major Code: BPHYS
Level: undergraduate
Number Of Credits: 99
Date: 30-09-2026

# 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 | MATH225-MATH210 | |
| MATH305 | Programming 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 | PHYS161-PHYS160-MATH161-MATH160-ENGL051 | |
| PHYS250L | Thermodynamic and Waves Lab | 1 | | PHYS250 |
| PHYS280 | Electricity and Magnetism | 3 | MATH210 | |
| PHYS280L | Electricity and Magnetism Lab | 1 | | PHYS280 |
| | Total | 36 | | |

## Major Requirements

| Code | Title | Credits | Prerequisites | Corequisites |
|---|---|---|---|---|
| PHYS300 | Mathematical Physics | 3 | 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 | Physical Optics Lab | 1 | PHYS250 | PHYS350 |
| PHYS360 | Analytical Mechanics | 3 | PHYS210-MATH270 | |
| 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 | PHYS330-ENGL201-PHYS340 | |
| | 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 B | General Education Electives | 3 | | |
| Set C | 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 Elective Courses**

| 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 | | |
| BMKT250 (Set A) | Marketing Theory and Principles | 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 | | |