PHYSICS (B.S.) - ONLINE

Important: This degree plan is effective for those starting this degree program in fall 2026 through summer 2027. This degree plan will remain in effect for students who do not break enrollment or who do not change degree programs, concentrations, or cognates.

General Education/Foundational Skills Requirements

Code	Title	Hours
Communication & Information Literacy [1]		
ENGL 101	Composition and Rhetoric	3
Communications Elective		3
Information Literacy Elective		3
Information Literacy Elective		3
Technological Solutions & Quantitative Reasoning [1]		
UNIV 104	Instructional Technology for Successful Online Learning	0-3
Math Elective	MATH 114 or higher	3
Critical Thinking [1]		
RLGN 104	Christian Life and Biblical Worldview [2]	4
Critical Thinking Elective		3
Civic & Global Engagement [1]		
Cultural Studies Elective		3
Social & Scientific Inquiry [1]		
Natural Science Elective		3
Social Science Elective		3
Christianity & Contexts [1]		
BIBL 104	Survey of Old and New Testament	4
THEO 104	Introduction to Theology Survey [2]	4
Total Hours		**39-42**

[1] Refer to the list of approved general education electives before enrolling in foundational skill requirements

[2] Students transferring in 45 or more UG credit hours will have the requirement of RLGN 104 waived; Students transferring in 60 or more UG credit hours will also have the requirement of THEO 104 waived

Major Requirements

Code	Title	Hours
Major Foundational Courses		
ENGL 103	Technical Communication for the Professions [1]	3
MATH 131	Calculus and Analytic Geometry I [1]	4
PHYS 231	University Physics I [1]	4
Total Hours		**11**

[1] Course may fulfill select general education requirements

Code	Title	Hours
Major Courses		
MATH 132	Calculus and Analytic Geometry II	4
MATH 410	Matrix and Linear Algebra	3
MATH 430	Multivariable Calculus	3
MATH 432	Applied Differential Equations	3
PHYS 232	University Physics II	4
PHYS 305	Introduction to Modern Physics	3
PHYS 310	Numerical Methods in Physics	3
PHYS 321	Mechanics	3
PHYS 331	Electricity and Magnetism	3
PHYS 432	Thermodynamics and Statistical Mechanics	3
PHYS 433	Quantum Physics	3
PHYS 440	Wave Optics	4
PHYS 491	Physics Capstone	3
Total Hours		**42**

Code	Title	Hours
Free Electives		
Choose 25-39 credit hours of Free Electives		25-39
Total Hours		**25-39**

All applicable prerequisites must be met

Graduation Requirements

- **120** Total hours
- **2.0** Overall grade point average
- **30** Hours must be upper-level courses (300-400 level)
- **Grade of 'C'** Minimum required for all major foundational courses and all upper-level courses in the major
- **25%** Of major taken through Liberty University
- **30** Hours must be completed through Liberty University
- **Grad App** Submission of Degree Completion Application must be completed within the last semester of a student's anticipated graduation date

Course Sequence

Freshman Year		
First Semester		**Hours**
BIBL 104	Survey of Old and New Testament	4
ENGL 101	Composition and Rhetoric	3
UNIV 104	Instructional Technology for Successful Online Learning	0-3
Communications Elective [1]		3
Math Elective MATH 131 [1]		4
	Hours	**14-17**
Second Semester		
RLGN 104	Christian Life and Biblical Worldview	4
Critical Thinking Elective [1]		3
Information Literacy Elective ENGL 103 [1]		3
Social Sciences Elective [1]		3
MATH 132	Calculus and Analytic Geometry II	4
	Hours	**17**
Sophomore Year		
First Semester		
Information Literacy Elective [1]		3
Natural Science Elective PHYS 231 [1]		4

MATH 430	Multivariable Calculus	3
Elective		3
Elective		3
	Hours	**16**
Second Semester		
THEO 104	Introduction to Theology Survey	4
Cultural Studies Elective [1]		3
PHYS 232	University Physics II	4
Elective		3
Elective		1
	Hours	**15**
Junior Year		
First Semester		
MATH 410	Matrix and Linear Algebra	3
MATH 432	Applied Differential Equations	3
PHYS 305	Introduction to Modern Physics	3
Elective		3
Elective		3
	Hours	**15**
Second Semester		
PHYS 310	Numerical Methods in Physics	3
PHYS 321	Mechanics	3
PHYS 331	Electricity and Magnetism	3
Elective		3
Elective		3
	Hours	**15**
Senior Year		
First Semester		
PHYS 432	Thermodynamics and Statistical Mechanics	3
PHYS 433	Quantum Physics	3
PHYS 440	Wave Optics	4
Elective		3
	Hours	**13**
Second Semester		
PHYS 491	Physics Capstone	3
Elective		3
Elective		3
Elective		3
Elective		3
	Hours	**15**
	Total Hours	**120-123**

[1] Refer to the list of approved general education electives before enrolling in foundational skills requirements

All applicable prerequisites must be met