

# PHYSICS (A.S.) - ONLINE

**Important:** This degree plan is effective for those starting this degree program in fall 2024 through summer 2025. 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
<b>Communication &amp; Information Literacy</b> <sup>1</sup>		
ENGL 101	Composition and Rhetoric	3
	Communications Elective	3
	Information Literacy Elective	3
<b>Technological Solutions &amp; Quantitative Reasoning</b> <sup>1</sup>		
UNIV 104	Instructional Technology for Successful Online Learning	0-3
	Math Elective MATH 114 or higher	3
<b>Critical Thinking</b> <sup>1</sup>		
RLGN 104	Christian Life and Biblical Worldview <sup>2</sup>	4
	Critical Thinking Elective	3
<b>Civic &amp; Global Engagement</b> <sup>1</sup>		
	Cultural Studies Elective	3
<b>Social &amp; Scientific Inquiry</b> <sup>1</sup>		
	Natural Science Elective	3
	Social Science Elective	3
<b>Christianity &amp; Contexts</b> <sup>1</sup>		
BIBL 104	Survey of Old and New Testament	4
THEO 104	Introduction to Theology Survey <sup>2</sup>	4
<b>Total Hours</b>		<b>36-39</b>

<sup>1</sup> Refer to the list of approved general education electives before enrolling in foundational skill requirements

<sup>2</sup> 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
<b>Major Foundational Courses</b>		
ENGL 103	Technical Communication for the Professions <sup>1</sup>	3
MATH 131	Calculus and Analytic Geometry I <sup>1</sup>	4
PHYS 231	University Physics I <sup>1</sup>	4
<b>Total Hours</b>		<b>11</b>

<sup>1</sup> Course may fulfill select general education requirements

Code	Title	Hours
<b>Major Core</b>		
MATH 132	Calculus and Analytic Geometry II	4
MATH 430	Multivariable Calculus	3
MATH 432	Applied Differential Equations	3

Code	Title	Hours
PHYS 232	University Physics II	4
PHYS 305	Introduction to Modern Physics	3
PHYS 321	Mechanics	3
PHYS 331	Electricity and Magnetism	3
<b>Total Hours</b>		<b>23</b>

Code	Title	Hours
<b>Free Electives</b>		
Choose 0-1 credit hours of Free Electives		0-1
<b>Total Hours</b>		<b>0-1</b>

All applicable prerequisites must be met

## Graduation Requirements

- 60 Total hours
- 2.0 Overall grade point average
- **Grade of 'C'** Minimum required for all upper-level courses in the major
- **25%** Of major taken through Liberty University
- **15 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

Course	Title	Hours
<b>First Year</b>		
<b>First Semester</b>		
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
	Communication Elective (ENGL 103) <sup>1</sup>	3
	Math Elective (MATH 131) <sup>1</sup>	4
<b>Hours</b>		<b>14-17</b>
<b>Second Semester</b>		
RLGN 104	Christian Life and Biblical Worldview	4
	Information Literacy Elective <sup>1</sup>	3
	Natural Science Elective (PHYS 231) <sup>1</sup>	4
MATH 132	Calculus and Analytic Geometry II	4
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>First Semester</b>		
THEO 104	Introduction to Theology Survey	4
	Critical Thinking Elective <sup>1</sup>	3
	Cultural Studies Elective <sup>1</sup>	3
MATH 430	Multivariable Calculus	3
PHYS 232	University Physics II	4
<b>Hours</b>		<b>17</b>
<b>Second Semester</b>		
	Social Science Elective <sup>1</sup>	3
MATH 432	Applied Differential Equations	3
PHYS 305	Introduction to Modern Physics	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
PHYS 321	Mechanics	3
PHYS 331	Electricity and Magnetism	3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>61-64</b>

<sup>1</sup> Refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened) before enrolling foundational skills requirements.