

#### UNIVERSITY DELL REQUIREMENTS (42 Credits)

<u>Core (12 Credits)</u>		SEM	GR
COMM 101	Oral Argumentation & Advocacy	_____	_____
ENGL 123W	College Writing Workshop	_____	_____
<i>Integrative Seminars</i>		NMBR	
DELL 100-level	First-Year Seminar	_____	_____
DELL 400-level	Senior-Year Seminar	_____	_____

#### Artistic & Creative Thinking\* (3 Credits)

#### Ethics or Civic Engagement\* (3 Credits)

#### Historical Interpretation\* (3 Credits)

#### Language & Intercultural Competence\*\* (6 Credits)

#### Literary Analysis\* (3 Credits)

#### Living Well\* (2 Credits)

#### Quantitative Reasoning\* (3 Credits)

**MATH 103** Calculus I

#### Scientific Literacy\* (4 Credits)

**PHYS 161** Physics I

#### Social Science Literacy\* (3 Credits)

#### GENERAL ELECTIVES\*\*\* (30-37 Credits)

#### MAJOR REQUIREMENTS (54 Credits)

<u>Physics Core (34 Credits)</u>		SEM	GR
PHYS 161	Physics I	_____	_____
PHYS 162	Physics II	_____	_____
PHYS 211	Physics III	_____	_____
PHYS 302	Physics IV	_____	_____
PHYS 309	Classical Mechanics	_____	_____
PHYS 312	Electromagnetic Theory	_____	_____
PHYS 333W	Computational Physics	_____	_____
PHYS 355	Electronics	_____	_____
PHYS 397	Independent Study in Physics	_____	_____

#### Physics Electives<sup>a</sup> (8 Credits)

#### Mathematics Requirements<sup>b,c</sup> (12 Credits)

MATH 103	Calculus I	_____	_____
MATH 104	Calculus II	_____	_____
MATH 211	Calculus III	_____	_____
MATH 301	Differential Equations	_____	_____

#### NOTES

\*Refer to class schedule for lists of courses that satisfy University requirements.

\*\*Must take two sequential courses.

\*\*\*Courses that do not satisfy a major or DELL requirement. Can include coursework for a minor.

<sup>a</sup>Any PHYS course 300 level and above, excluding PHYS 397

<sup>b</sup>Students are strongly encouraged to take MATH 307 (Linear Algebra), MATH 313 (Complex Variables), and MATH 328 (Vector Analysis).

<sup>c</sup>Due to the number of math courses required, physics majors usually minor in math at the very least, and commonly add math as a double major with physics.

**Total credits required for graduation: 124 Credits**

For graduation with Honors, see Undergraduate Catalog

# Physics Major (Bachelor of Science)

## Sample Four-Year Plan

While not all students will take all the courses in the same sequence, the guide below can be used in combination with the online graduation progress report as a pathway to degree completion. See the Academic Regulations in the University of Lynchburg Undergraduate Catalog for all academic degree requirements. Students should consult their major advisor for more specific guidance.

Semester 1	Credits	Semester 2	Credits
Scientific Literacy (PHYS 161)	4	PHYS 162	4
Quantitative Reasoning (MATH 103)	3	MATH 104	3
College Success Strategies (G S 104)	1	ENGL 123W	3
First-Year Seminar	3	COMM 101	3
Language & Intercultural Competence I	3	Language & Intercultural Competence II	3
Elective	3		
<b>Semester Credits:</b>	<b>17</b>	<b>Semester Credits:</b>	<b>16</b>
Semester 3	Credits	Semester 4	Credits
PHYS 211	4	PHYS 302	4
MATH 211	3	MATH 301	3
Historical Interpretation	3	Literary Analysis	3
Artistic & Creative Thinking	3	Elective	3
Elective	3	Elective	3
<b>Semester Credits:</b>	<b>16</b>	<b>Semester Credits:</b>	<b>16</b>
Semester 5	Credits	Semester 6	Credits
PHYS 309	4	PHYS 355	2
PHYS 333W	4	PHYS 436	4
Ethics or Civic Engagement	3	Social Scientific Literacy	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>Semester Credits:</b>	<b>17</b>	<b>Semester Credits:</b>	<b>15</b>
Semester 7	Credits	Semester 8	Credits
PHYS 312	4	PHYS 318	4
PHYS 397	2	PHYS 432	4
Senior-Year Seminar	3	PHYS 397	2
Living Well	2	Elective	3
Elective	3	Elective	3
Elective	3		
<b>Semester Credits:</b>	<b>17</b>	<b>Semester Credits:</b>	<b>16</b>

**Total Credits Required to Graduate: 124**

### Important Notes:

MATH 211 and MATH 301 are typically offered only once per year. This means students may take MATH 301 in the fall and MATH 211 in the spring. There may also be years where students take MATH 211 and MATH 301 simultaneously.

PHYS 309, 333, 355, and 436 are typically offered during academic years that begin in an odd year. PHYS 312, 318, and 432 are typically offered during academic years that begin in an even year.

A total of four credit hours of PHYS 397 are required for the physics major. These may be taken all at once or spread across multiple semesters.