

# PHYSICS, PHD

**Requirements for Students Matriculating in or before Academic Year 2024-2025.** Learn more about Graduate College Academic Regulation 7.0 (<http://catalog.okstate.edu/graduate-college/#70>).

**Total Hours:** 60 (Beyond the Master's Degree)

Code	Title	Hours
<b>Required Courses</b>		
PHYS 5113	Statistical Thermodynamics and Kinetic Theory	3
PHYS 5213	Statistical Mechanics	3
PHYS 5313	Electromagnetic Theory	3
PHYS 5413	Classical Mechanics	3
PHYS 5453	Mathematical Methods for Physicists	3
PHYS 5613	Quantum Mechanics I	3
PHYS 6313	Quantum Mechanics II	3
<b>Hours Subtotal</b>		<b>21</b>
<b>Electives <sup>1</sup></b>		
Select a minimum of 9 hours of Physics (PHYS) 5000- or 6000-level courses:		9
<b>Hours Subtotal</b>		<b>9</b>
<b>Research <sup>1</sup></b>		
Thirty hours from:		30
PHYS 6000	Doctoral Dissertation Research	
<b>Hours Subtotal</b>		<b>30</b>
<b>Total Hours</b>		<b>60</b>

1

Combined elective and research hours should total 39 hours.

**Total Hours:** 72 (Beyond the Bachelor's Degree)

Code	Title	Hours
<b>Required Courses</b>		
PHYS 5113	Statistical Thermodynamics and Kinetic Theory	3
PHYS 5213	Statistical Mechanics	3
PHYS 5313	Electromagnetic Theory	3
PHYS 5413	Classical Mechanics	3
PHYS 5453	Mathematical Methods for Physicists	3
PHYS 5613	Quantum Mechanics I	3
PHYS 6313	Quantum Mechanics II	3
<b>Hours Subtotal</b>		<b>21</b>
<b>Electives <sup>2</sup></b>		
Select a minimum of 9 hours of Physics (PHYS) 5000- or 6000-level courses:		9
<b>Hours Subtotal</b>		<b>9</b>
<b>Research <sup>2</sup></b>		
Forty-two hours from:		42
PHYS 6000	Doctoral Dissertation Research	
<b>Hours Subtotal</b>		<b>42</b>
<b>Total Hours</b>		<b>72</b>

2

Combined elective and research hours should total 51 hours.

## Graduate College Doctor of Philosophy (PhD) Requirements

Learn more about Graduate College 2024-2025 Doctor of Philosophy (PhD) Degree Program Requirements (<http://catalog.okstate.edu/graduate-college/>). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.