

REQUIREMENTS FOR THE DOCTOR OF PHILOSOPHY
GALLOGLY COLLEGE OF ENGINEERING
THE UNIVERSITY OF OKLAHOMA

| Academic Year |
|---|
| For Students Entering the Oklahoma State System for Higher Education Summer 2024 through Spring 2025 |

| General Requirements |
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| Minimum Total Hours 90 |

| Program |
|---|
| Engineering Physics D372 Doctor of Philosophy |

PROGRAM REQUIREMENTS

| Code | Title | Credit Hours |
|--|--|--------------|
| Required Coursework (37 hours) | | |
| PHYS 5001 | | 1 |
| PHYS 5013 | Mathematical Methods in Physics | 3 |
| PHYS 5393 | Quantum Mechanics I | 3 |
| PHYS 5403 | Quantum Mechanics II | 3 |
| PHYS 5153 | Classical Mechanics | 3 |
| PHYS 5573 | Electrodynamics I | 3 |
| PHYS 5583 | Electrodynamics II | 3 |
| PHYS 5163 | Statistical Mechanics | 3 |
| 12 hours of Engineering courses at 5000-level or above | | 12 |
| An additional course in Physics or Engineering (excluding 5980 or 6980) ¹ | | 3 |
| Additional Coursework | | |
| Coursework or seminars as approved by the advisory committee | | 0-51 |
| Dissertation Research | | |
| EPHY 6980 | Research for Doctoral Dissertation ((2 hours minimum)) | 2-53 |
| Total Credit Hours | | 90 |

¹ May be in related fields at G4000 level or above if approved by the advisory committee and graduate liaison.

NOTE:

The General Examination can only be taken after passing the internal departmental qualifying exams on Quantum Mechanics, Electrodynamics, and Classical & Statistical Mechanics.

GENERAL REQUIREMENTS FOR DOCTORAL DEGREES

A student should expect to spend at least the equivalent of three full academic years beyond the bachelor's degree to obtain the doctoral degree. During this period the student will take appropriate graduate coursework, successfully complete the general examination, and successfully defend and submit the final dissertation.

All coursework applied to the doctoral degree must carry graduate credit.

The doctoral degree requires at least 90 post-baccalaureate hours, including both formal coursework and hours of research.

The minimum hour requirement for a specific doctoral degree program cannot be waived.

No more than one-half of the credit hours, both OU and overall, excluding Research for Doctoral Dissertation (6980), may be S/U-graded coursework.

The student must be in residence at OU for at least two consecutive 16-week semesters during the pursuit of the doctoral degree while enrolled and engaged in coursework or research activities as prescribed by the major academic unit.

For more detailed regulations and requirements for Doctoral degrees, please consult the Graduate College Bulletin: <http://www.ou.edu/gradcollege/forms/bulletin>

More information in the catalog: (<http://ou-public.courseleaf.com/gallogly-engineering/engineering-physics/engineering-physics-doctor-philosophy/>).