

# 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<br>Summer 2025 through Spring 2026 |

| General Requirements         |
|------------------------------|
| Minimum Total Hours ..... 90 |

| Program                |
|------------------------|
| Mechanical Engineering |
| D675                   |
| Doctor of Philosophy   |

## PROGRAM REQUIREMENTS

### Concentrations:

- Combustion (R126)
- Controls (R151)
- Fluid Mechanics (R256)
- Heat Transfer (R321)
- Mechanical Engineering Standard (R448)
- Solid Mechanics (R616)

| Code                         | Title   | Credit Hours |
|------------------------------|---|--------------|
| <b>Course Requirements</b>   |   |              |
|                              | Advanced engineering graduate courses at the 5000-level or higher (minimum 24 hours) <sup>1</sup> | 24           |
|                              | Graduate-level math-related coursework (minimum 3 hours)  | 3            |
|                              | Graduate-level math-related or science coursework (minimum 3 hours)                               | 3            |
|                              | Additional coursework as needed to reach 42 hours <sup>2</sup>                                    | 0-12         |
| <b>Dissertation Research</b> |   |              |
| AME 6980                     | Research for Doctoral Dissertation (42 hours minimum)   | 42           |
| <b>Total Credit Hours</b>    |   | <b>90</b>    |

<sup>1</sup> As determined by the student's doctoral advisory conference.

<sup>2</sup> Students enrolled in the thermal science program are required to take the following: AME 5333, AME 5803, AME 5973 Computational Heat and Fluid Flow.

## COURSEWORK REQUIREMENTS

- The program requires satisfactory completion of at least 42 course credit hours beyond the baccalaureate degree for a total of 90 credit hours.
- A maximum of 9 credit hours of Special Projects, Guided Individual Studies, or other non-competitively graded courses (including 6 credit hours of MS thesis) may be included.
- Students may include up to 42 credit hours from previous graduate work as follows:
  - All of a M.S. degree up to 30 hours but including no more than 6 thesis hours
  - All of a M.S. non-thesis degree up to 36 hours
  - Up to 12 hours of post-master's work

## 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/aerospace-mechanical-engineering/mechanical-engineering-doctor-philosophy/>).