# MATERIALS SCIENCE AND ENGINEERING, 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:** 72 (Group I - Beyond the Bachelor’s Degree)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MSE 5013</td>
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<td>3</td>
</tr>
<tr>
<td>MSE 5023</td>
<td>Diffusion and Kinetics</td>
<td>3</td>
</tr>
<tr>
<td>MSE 5043</td>
<td>Advanced Materials Characterization</td>
<td>3</td>
</tr>
<tr>
<td>MSE 6010</td>
<td>Materials Science and Engineering Seminar for PhD Students</td>
<td>0</td>
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</tbody>
</table>

**Hours Subtotal**: 9

**Electives**

Student must complete 27 hours of MSE or other approved 5000- and 6000-level courses offered at OSU from preselected list of MSE, CHE, ECEN, or MAE courses, or additional courses in engineering or science per committee approval.

**Hours Subtotal**: 27

**Dissertation**

Thirty-six hours from:

- MSE 6000  Doctoral Dissertation

**Hours Subtotal**: 36

**Total Hours**: 72

**Total Hours**: 60 (Group II - Beyond the Master’s Degree from Outside OSU)

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**Hours Subtotal**: 9

**Electives**

Group III student must complete 27 hours of MSE or other approved 5000- and 6000-level courses offered at OSU. The student must complete the three required courses for the PhD program during his/her MS degree in Materials Science and Engineering at OSU. If any of the remaining Required Courses were taken as Elective by the student during his/her MS degree, they will not be required to take them again. However, if the student had not completed any of the remaining Required Courses during his/her MS degree in Materials Science and Engineering at OSU, the student must take them to complete the Required Course requirements for PhD degree in MSE at OSU.

Select from the following:

- MSE 5013  Advanced Thermodynamics of Materials
- MSE 5023  Diffusion and Kinetics
- MSE 5043  Advanced Materials Characterization
- MSE 6010  Materials Science and Engineering Seminar for PhD Students

**Total Hours**: 60

**Additional Materials Science and Engineering, PhD, Requirements**

- Upon approval by the committee, students may choose other appropriate elective courses from engineering, physics and chemistry departments.
- Requirement for taking the “Required” courses for Group III Ph.D. students will be waived if they have taken that course while doing their M.S. degree at OSU. The same course however, cannot be counted towards fulfilling the credit hour requirements for two degrees (M.S. and Ph.D.) at OSU. The student will be required to fulfill the remaining coursework credit hour requirement for the Ph.D. degree by taking “Elective” courses.
- Students entering the Ph.D. program without an undergraduate/graduate degree in Materials Science and Engineering or related degree will be required to complete the ENSC 3313 Materials Science (undergraduate course) with an “A” grade or better in their first year at OSU. This will not be counted towards their degree requirements.

## 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.