

# MECHANICAL ENGINEERING, PH.D.

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The Graduate School has general requirements for Ph.D. students that must be met by all degree candidates (including earning at least 60 credit hours beyond the bachelor's degree for doctoral degrees). The Department of Mechanical Engineering has additional requirements (some of which are described below) that must be met before students can complete their degrees. Consult the department for complete, current requirements.

## Learning Outcomes

1. Students will demonstrate the ability to solve problems in a core area of mechanical engineering.
2. Students, with guidance from their faculty research advisor, will design a research or development project in a specific area of interest.
3. Students will demonstrate the ability to describe complex ideas to others by oral presentation.

## Degree Requirements (60 Post-Baccalaureate Hours)

**For doctoral degrees in mechanical engineering:** A Ph.D. student must complete 12 hours of dissertation credit leading to a dissertation. A student with a master's degree in mechanical engineering or a closely related field must take at least 18 hours of graded graduate courses. A student without a master's degree must take at least 48 hours of graduate courses, of which 42 or more hours must be graded graduate courses. The remaining hours can be in graded graduate courses and must include the core courses required of all master's degree students.