

# Mechanical Engineering

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## Department Information

- **Department Chair:**  
Alan Kallmeyer, Ph.D.
- **Graduate Coordinator:**  
Yechun Wang, Ph.D.
- **Department Location:**  
111 Dolve Hall
- **Department Phone:**  
(701) 231-8671
- **Department Email:**  
ndsu.me.gradprogram@ndsu.edu
- **Department Web Site:**  
[www.ndsu.edu/me/](http://www.ndsu.edu/me/) (<http://www.ndsu.edu/me/>)
- **Application Deadline:**  
February 15 for fall semester; September 15 for spring semester. Applications received after the deadline will still be considered, but preference is given to those submitted by the deadline.
- **Credential Offered:**  
Ph.D., M.S.
- **Test Requirement:**  
GRE
- **English Proficiency Requirements:**  
TOEFL iBT 71, IELTS 6; Duolingo 100

## Mechanical Engineering - M.S.

The minimum credits required for the M.S. degree in Mechanical Engineering is 30. The M.S. degree can be earned with either of two options: the thesis option or the comprehensive study option.

With the thesis option, a student must complete 21-24 credits of graduate courses in mechanical engineering and a master's thesis of 6 to 9 credits of ME 798 Master's Thesis. At the conclusion of the graduate program, the student will be examined orally on the thesis and course work.

With the comprehensive study option, a student must complete 27 credits of graduate courses in mechanical engineering and a master's paper of no more than 3 credits of ME 797 Master's Paper. At the conclusion of the graduate program, the student must pass a comprehensive oral examination on the master's paper and course work.

For more detailed information on the requirements for the M.S. degree, contact the department.

## Mechanical Engineering - Ph.D.

The Ph.D. program requires the completion of 90 credit hours of graduate study beyond the baccalaureate degree (60 credits beyond the M.S. degree). In addition to the credit requirements for the M.S. degree, the Ph.D. degree requires a minimum of 24 course credits and a minimum of 24 credits of research-based dissertation. The remaining 12 credits may consist of any approved graduate level credits.

Code	Title	Credits
<b>Didactic Courses</b>		<b>24</b>
Courses numbered 601-689 or 700-989		
<b>Dissertation Research</b>		<b>24</b>
ME 899	Doctoral Dissertation	
Any approved graduate level credits		12
<b>Total Credits</b>		<b>60</b>

After the majority of course work has been completed, each student is required to pass a series of written qualifying exams on core subjects. After passing the written exams, an oral preliminary exam will be administered focusing on the student's proposal for the dissertation research. At the conclusion of the Ph.D. program, each student is required to pass a comprehensive oral final examination primarily focused on the dissertation. This exam may also cover material from course work, particularly courses fundamental to the dissertation. For more detailed information on the requirements for the Ph.D. degree, contact the department.

## **Graduate Seminar Series**

In addition to the 30 credits of Master's coursework and/or 90 credits of Ph.D. coursework, students are required to enroll in the department's graduate seminar series, ME 790, for each semester of their graduate study but not to exceed three semesters, per degree. ME 790 is offered as a one (1) credit, required course and grades will be given only as pass/fail.