

## Mechanical Engineering Combined Degree

The Department of Mechanical Engineering offers combined B.S./Master's programs that allow a student to complete a master's degree in as little as one year beyond the bachelor's degree. The master's degree may be either an M.S. or M. Engr.

To encourage undergraduate engineering students to extend their studies to include a graduate degree, the College of Engineering and Mines has combined programs in Chemical, Civil, Electrical and Mechanical Engineering which permit students to earn both B.S. and M.S./M.Engr. degrees in an engineering discipline. This program allows students to designate two three-credit hour courses to count for both degrees.

- Students may be admitted to the Engineering Combined Degree Program after the completion of 95 credit hours towards the B.S. degree with a GPA of at least 3.0, and before completion of the B.S. degree.
- Completed applications must be received at the School of Graduate Studies by the application deadline. A complete application includes:
  - School of Graduate Studies application and application fee
  - 3 letters of reference
  - Statement of Purpose
  - Program of Study - Engineering Combined Degree
- The two three-credit hour courses designated for both degrees must not have been completed at the time of application and they must have graduate course standing.
- The student is admitted to the School of Graduate Studies on completion of 125 credit hours towards the B.S. degree with a GPA of 3.0 or higher.
- Students in the program may opt to be awarded their B.S. and M.S. degrees sequentially or at the same time.

### Faculty and Areas of Expertise

- **Forrest Ames, Ph.D., P.E.**, External Gas Path Heat Transfer, Film Cooling, and Aerodynamics, Influence of Flow Field Turbulence, Turbulence Modeling, Gas Turbine Component Cooling
- **Bishu Bandyopadhyay, Ph.D.**, Manufacturing Processes with emphasis on Machining, Ceramics Machining, Low-Volume, High Product Mix FMS
- **George Bibel, Ph.D., P.E.**, Finite Element Analysis, Failure Analysis, Pressure Vessel Component Design, Materials
- **Matthew Cavalli, Ph.D.**, Solid Mechanics, Materials, Manufacturing
- **Nanak Grewal, Ph.D.**, Heat Transfer in Fluidized Beds
- **Surojit Gupta, Ph.D.**, Green/energy saving materials and novel nano-laminated 2D and 3D solids
- **Jeremiah Neubert, Ph.D.**, Augmented Reality, Computer Vision, Robotics, Mechatronics, and Controls
- **William Semke, Ph.D.**, Dynamics, Vibrations, Finite Element Methods, Aerospace Hardware Design, Nanotechnology and Experimental Methods
- **Clement Tang, Ph.D.**, Microfluidics and Multi-phase flow
- **Marcellin Zahui, Ph.D.**, Control Systems, Acoustic, Active Noise and Vibration Control

### Contact Information

Dr. Jeremiah Neubert, Graduate Director  
College of Engineering and Mines  
Mechanical Engineering Graduate Program  
University of North Dakota  
Upton II  
243 Centennial Drive, Stop 8359  
Grand Forks, ND 58202-8359

P: 701-777-2571  
F: 701-777-2271  
E: jeremiah.neubert@und.edu

**Apply online:** <http://graduateschool.und.edu>  
**Deadlines apply. See our website for more details.**

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*Email: [questions@gradschool.und.edu](mailto:questions@gradschool.und.edu)*